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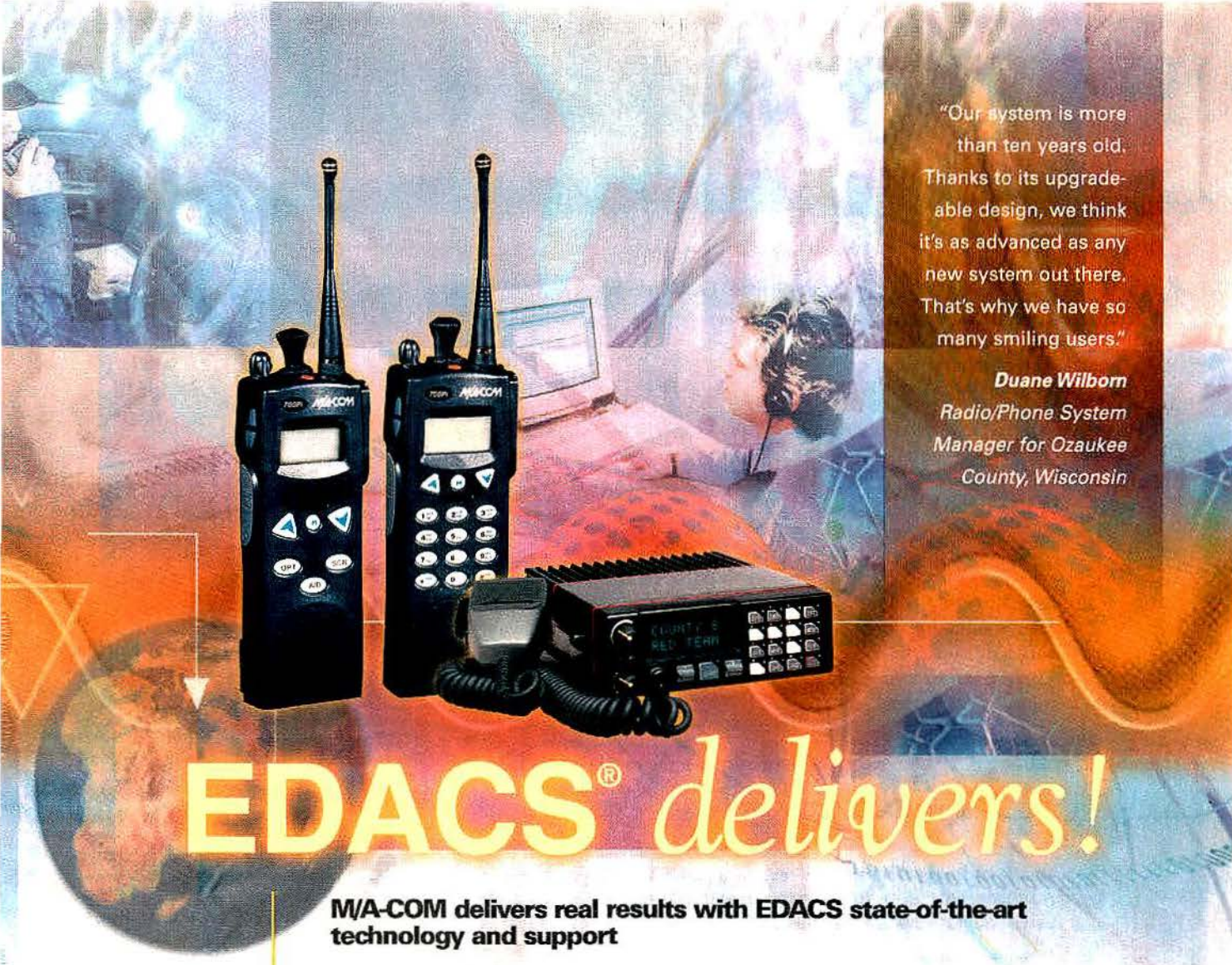
CIRCLE (1) ON FAST FACT CARD



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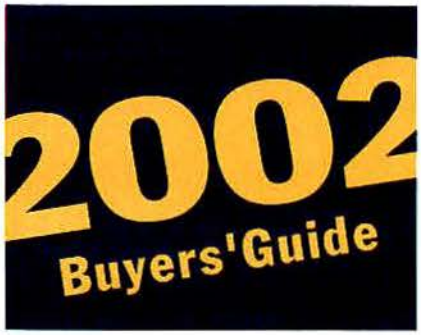

MRT®
MOBILE RADIO TECHNOLOGY

DECEMBER 2001
Volume 19, Issue 12

On the cover: *MRT's* 15th annual Buyers' Guide serves as the year-round reference for buying in 2002. About 1,000 companies are listed.

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MRT's annual directory provides essential information that you will want to retain for quick reference throughout the year. Products and services are listed, as well as brand names and company addresses.

12 Product directory
More than 100 categories of equipment for the mobile radio industry are listed, as well as almost 1,000 suppliers. Advertisers in this issue are highlighted.

38 Services directory
Mobile radio services such as accounting and billing, consulting, repair, technician training, tower installation and tower space are listed. Advertisers are highlighted.

42 Company addresses
An alphabetical listing of nearly 1,000 suppliers and service providers appears in this section.

78 Brand names directory
Sort out which company is associated with specific mobile radio industry brand names in this alphabetized listing.

ON THE WEB AT WWW.MRTMAG.COM:

Supplier directory
The *Mobile Radio Technology* Buyers' Guide is also featured on the Web. Just browse the left-hand column of **www.mrtmag.com**, and under "Related Links," you will find the online supplier directory.

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CIRCLE (3) ON FAST FACT CARD

A Member of Bird Technologies Group

Choose a dealer group that fits your goals

By the time you read this, a new trade group for mobile radio dealers may have been formed during the AMTEX trade show in Miami, held Nov. 12–13.

What happened, you see, is that Alan Van Velkinburgh, chairman of the Council of Independent Communications Suppliers (and president of Houston 2-Way Radio), wrote an opinion column in our January 2001 issue. Among other things, he said that dealers need a commitment to improving their businesses. Dealers need to formulate, revise and carry out a business plan, he said. He also promoted involvement in industry associations, recommending, naturally enough, CICS.

Bob Urian, chief operating officer of Specialized Communication Consultants and president of Nucom Consulting, Tempe, AZ, mentioned Van Velkinburgh when he took up the subject in his own February 2001 opinion column. Although several trade associations sponsor dealer groups, Urian identified dealers as one of the only industries in the country without a national association.

Urian expressed suspicion about manufacturer-led groups when he wrote: "A few years back, I sat on a national dealer advisory council for a radio manufacturer. There were 12 of us, and we talked about forming a dealer association. You'll never guess what happened: The council was suddenly disbanded, abolished—terminated. Gee, I wonder why?"

www.mrtmag.com
Read news about AMTA's potential dealer council on *MRT's* Web site.

Letters of support

Hudson Denny, the sales manager at Diversified Electronics' Greenville, SC, location, and Dan Shepard, president of Vincennes Electronics in Vincennes, IN, added their voices in letters published in the May 2001 issue.

"We need to communicate more (or at all) and come up with a market strategy that plays on our strengths as a leader in wireless solutions," Denny wrote.

Shepard added: "Let me know if you get some kind of association together."

Taking note of all this was

George Daigneault, president of the Licensing Assistance Office, Gettysburg, PA. LAO is a business that assists dealers with FCC license applications. Daigneault wanted to see whether a group might be formed that could deliver what PCIA, ITA, SBT and USMSS do not. PCIA sponsors a dealer group: Mobile Wireless Communications Alliance. ITA sponsors CICS. SBT primarily has dealers and SMR operators as members. USMSS is an organization of Motorola Service Stations, most of which are dealers.

Daigneault contacted Alan Shark, president of the American Mobile Telecommunications Association, and the two made plans to facilitate a discussion among dealers at AMTA's trade show, AMTEX. The meeting may result in the formation of an independent radio dealer council within AMTA—that's something we don't know at press time.

The new dealer council may resemble CICS and MWCA by operating under the umbrella of an existing trade association. AMTA is freshly certified by the FCC as a frequency coordinator, so the new group would share a sponsor with a similar qualification to that of ITA and PCIA, also frequency coordinators.

The new group would not have SBT's independence, yet it would not be subject to the influence of a single manufacturer as Motorola influences USMSS.

We've seen dealer groups come and go.

SMR Wireless Operators Network formed to defend 800MHz SMR frequencies. SMR WON tried hard but lost. Lacking any further unifying issue, it faded away.

The American Private Radio Association was formed out of apparent paranoia about perceived conspiracies involving the FCC, frequency coordinators, this editor and anyone else with supposed membership in the "Washington inner circle." Operating through a mail drop and an answering service, APRA came and went like a spring zephyr, and with just about as much substance.

AMTA, meanwhile, has been in business for 16 years.

Cost vs. benefits

Membership isn't expensive. Membership in SBT is $300; in CICS, $250; in MWCA, $325; in USMSS, $500. If a new dealer council were formed within AMTA, dues probably would be comparable.

How, then, does one choose a dealer group? An obvious criterion would be published membership benefits. Maybe less obvious yet more to the point would be finding the group that, through mutual involvement, lifts dealers to higher levels of innovation, professionalism and sales.

Whether or not there's a new kid on the block this month, you should take some good advice from your peers and join a dealer group that fits you the best.

Don Bishop

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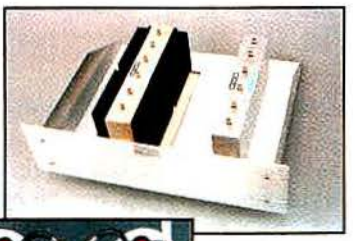

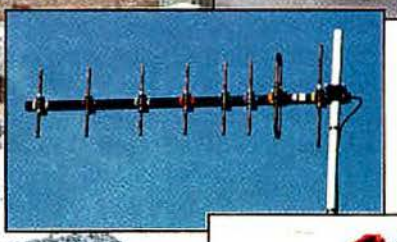

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CIRCLE (4) ON FAST FACT CARD

Dear Santa

By Robert H. Schwaninger Jr.

Dear Santa:

I have been a good boy this year. (I don't care what my wife says. She's got this thing about dirty clothes on the floor and a fixation on the position of the toilet seat.)

I'll try not to take up too much of your time, but without your help, the tree looks a little bare on the bottom and, besides, the presents keep the dog from drinking out of

Illustration by John Hayes

the tree stand. So, here's my list:

1. New B&I equipment to enter the market. The units should be feature-rich, but they don't need every doggone bell and whistle to drive the price up. I'm not talking about public safety stuff with the associated price tag. Keep the price down so that the local operators can make a reasonable profit. Every one of them is hoping that you can get more than one or two manufacturers to recognize the enormous demand for this stuff and start pumping it out. It would sell better than Tickle-Me-Elmo.

2. A reasonable lease offer from one of the major tower companies. The contracts they are handing out are designed to ensure negative earnings from carriers. These deals are so one-sided for the tower companies that smaller operators might as well mortgage the business to get on the site. Even then they won't be sure what they'll be paying because the language is open-ended on ancillary charges.

3. A decision out of the FCC that says LECs have to stop pussy-footing around on interconnection agreements. I'd like to get some more tangible progress for paging companies that are waiting for the dawn to break over the LEC's accounting departments. Make them drop the traffic charges and stop trying to rebill the charges by renaming them facility charges.

OK, I know that at this point you're beginning to ask what this is all about. After all, most kids ask for a Betsy-Wetsy doll or a new GI Joe with kung fu grip or even a Harry Potter book. By now you might have guessed that I'm 49 years old, and this letter is unusual in that regard.

But, like any good lawyer, I've done my research and checked all the books to see if there are any statutory or common-law bars to my writing and asking for stuff. I have not found any. Additionally, I checked to see if there were any limitations on requests. (You know, "if it doesn't fit under the tree, then forget it.")

To confirm my findings, I reviewed the classic, "Miracle on 34th Street," wherein one S. Claus aka "Kris" delivered to a girl and her mother a husband/father and a house. Based on the aforementioned evidence, one might reasonably conclude that there is neither an age nor a size limitation associated with this tradition, and that said, S. Claus is thereby estopped from asserting any such bar or limitation, either in law or equity.

The above considered and for good reasons shown, I continue:

4. A decision out of the FCC that states, once and for all, that it will not upset the entire applecart by ever, in this lifetime or the next, attempting to auction private radio spectrum in the UHF or VHF bands. I want the decision to state, "We realize that our policies in past years have ignored the needs of local operators, small business and regional companies. So, as a way of saying 'sorry about that' you have our pledge."

5. A letter from Congress that explains why it believes that the telecommunications industry should be taxed to death.

6. Someone to explain to me why digital telephony is better than analog. Forget the engineering mumbo-jumbo. I want to know why people think that the quality of the service is better. I don't get it.

7. A copy of the list of pet companies that the FCC is *never* going to shaft, come down on or even regulate to any great degree. Mind you, I already have a good idea about most of them. But I'd like it in writing so that I can adjust my business and quit wasting time arguing with the FCC about entities for whom the fix is in.

8. An explanation from someone about why the FCC's new ULS does not want applicants to renew and modify a license at the same time.

9. I'd also really like to know why the lights on my Christmas tree work fine until I get all of the ornaments on it.

That's it. When you think about it, Santa, it's not really that big a deal, is it? OK, if you want to take the easy way out, just give me a house. ■

Schwaninger, *MRT's* regulatory consultant, is the principal in the law firm of Schwaninger & Associates, Washington, which is counsel to Small Business in Telecommunications. Schwaninger is also a member of the Radio Club of America. His email address is *rschwaninger@sa-lawyers.net*.

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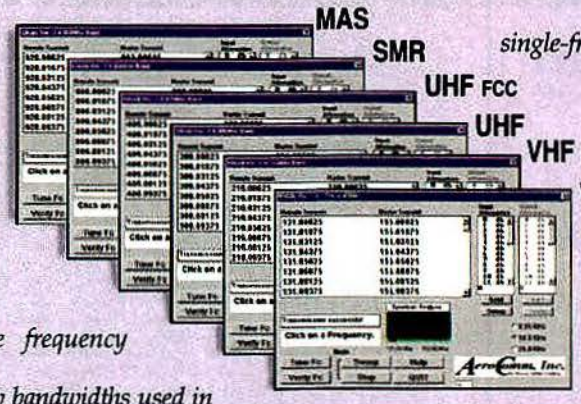

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Insurance	40
Service monitor repair and calibration	40
Site construction services	40
Software development	40
Systems integration	40
Technician training	40
Tower installation	40
Tower space rental	40

Always keyed up to listen to you

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The MRT editors would like to hear from you. Contact us at: mrt@primediabusiness.com.

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TEST IT! ANALYZE IT! OPTIMIZE IT!

BERKELEY'S WIRELESS PRODUCTS KEEP YOUR SYSTEMS RUNNING SMOOTHLY!

Mongoose™

SIGNAL STRENGTH METER

For indoor sweeps by propagators.

- Internal memory stores signal strength
- Scans up to 21 channels
- Displays best 3 channels simultaneously
- Outputs data to a PC with a serial cable
- Headphones or internal speaker for audio
- Includes Ni-Cad battery/charger

The Lizard™

1 WATT PORTABLE TRANSMITTER with REMOTE CONTROL

For indoor coverage testing.

- Adjustable power control from 1 milliwatt to 1 watt output
- Infrared remote control adjusts power output, frequency and on-off >25 feet
- Battery operated

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www.bvsystems.com/microcell

WIRELESS LAN TEST PRODUCTS

www.bvsystems.com/wlan

DRIVE-TEST AND WALK-ABOUT PROPAGATION ANALYSIS

www.bvsystems.com/drivetest

New!

Cricket™

IEEE 802.11 RECEIVER

Tests Frequency Hopping

- Measures coverage for Spread Spectrum (FHSS) wireless networks (wideband IF 1 MHz)

New!

Locust™

IEEE 802.11b RECEIVER

WLAN Drive-Study Analyzer

- Measures direct sequence (DSSS) wireless networks (IF wideband 22 MHz)
- Removable data storage & output capability
- Internal GPS

WLAN Measurements:

- 2.4 GHz ISM band
- Signal strength
- Multipath
- PER (Packet

All BVS WLAN products come with a rugged carrying case, charger, batteries and accessories.

New!

Grasshopper™

IEEE 802.11b RECEIVER

Tests DSSS Networks

- Detects & differentiates from narrowband multi path interference such as microwave ovens & frequency hopping systems

The Fox™

RUGGED HAND-HELD SIGNAL STRENGTH METER

Measures RF propagation coverage and detects "RF Shadows".

- High measurement rate, more than twice that of Dr. Lee's recommended 40 λ.
- Internal eight channel differential GPS
- Removable PCMCIA memory system for post processing data import to a PC

The Coyote™

DUAL MODULAR RECEIVER

Measures RF propagation coverage and detects "RF Shadows".

Two Independent Receivers

- Dual modular receivers and 12-channel GPS allow users to swap various bands while in the field
- High measurement rate, more than twice that of Dr. Lee's recommended 40 λ. plus distance averaging
- Removable, rechargeable Li-Ion battery system
- Removable 8 MByte compact flash memory system

The Gator™

CLASS A TRANSMITTER SERIES

For measuring signal propagation, positioning antennas, setting power levels or validating coverage.

- Available in either 25 Watt Class A, or 45 Watt Class A (10 or 20 Watt Class A for PCS) FCC Type Accepted
- Built-in agile frequency synthesizer
- Remote controllable

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symbol

MapInfo

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CIRCLE (7) ON FAST FACT CARD

Airtime billing equipment

Computer Resources
Escotel Software
EZ Soft Business Software/EZ Pager
The Genesis Group
John Mitchell
Service Level
Tekno Telecom
Zetron

Alarm & security systems

Accele Electronics
ATX Technologies
Badger Technology
Barnett Engineering
Comm-Tech International
Communications & Signals
Compuquest
CRN Telemetry Devices
CSI/Speco
Danmax Communication
Dataprobe
Delcom Industries
Dialogic Communications
DPS Telecom
Eagle Wireless International
EPCOM
Falcon Wireless
Fort Worth Tower
Gronel Assoc
Hark Tower Systems
Jack Daniel Company
Keyware Technologies
MCM Electronics
Merry Electronics
Midian Electronics
Miracom Technologies
Mountain Communications
NSI Communication
PageTek
Polaris Industries
Racom Products
Richardson Electronics
Sharp Communication
Tadiran
Tekno Telecom
Telemobile
Telescada
TESSCO
Visiplex
Whelen Engineering
World Communications
WPCS
Zetron

Alternative energy sources: Photovoltaic, thermoelectric, wind-driven & fuel-powered generators

Applied Power
Atlantic Solar Products
Auto-Comm Engineering
Cummins Power Generation
Direct Power & Water
Dupont Building
Exeltech
Generac Power Systems
Henry Radio
Hutton Communications
Paging & Wireless Service Center
Quality Mobile Communications
Siemens Solar Industries
Southwest Windpower
Sunelco
SunWize Technologies
Talley Communications

Amplifiers: RF power, mobile and portable

Adams Distributing
ADC
Advanced Test Equipment Rentals/ATEC
AF CommSupply
Allen Telecom
Amplifier Research
Andrew
Anritsu
Auto-Comm Engineering
Beam Radio
Benelec
Bravo Tech
Canamex Communications
Communication Engineers
Communications & Signals
Consultant-Log Electronics
CPI SATCOM Div
Crescend
CTT
Cubic Communications
Datron World Communications
Eagle Wireless International
Electro-Comm Dist
ElectroCom Systems
EMR
Fanon Courier
Futurecom Systems Group
General Communications
Harris RF Communications
Henry Radio
Jan Communications & Electronics
Kaval Telecom
Mason Electric
MFJ Enterprises
Morcom International
Motorola Aftermarket Products
MPD Technologies
Primus Electronics
Radio Communications Wholesalers
Radio Frequency Systems
Richardson Electronics
Schaefer Radio
Secom Systems
SGC
Silicon Valley Power Amplifiers
Spectrian
Spectrum Communications
Synetcom Digital
Tadiran
Talley Communications
TelePath
TPL Communications
Tunnel Radio of America
Ultra RF
VoCom Products
Webster Communications
WPCS

Amplifiers: Signal boosters, bi-directional amplifiers

ADC
Aerocomm
AF CommSupply
Allen Telecom
Andrew
Beam Radio
Benelec
Crescend
Davicom Technologies
Electro-Comm Dist
Electronic Products
EMR
ESE
Futurecom Systems Group
Jack Daniel Company
Kaval Wireless Technologies
Manon Engineering
Mason Electric
Primus Electronics
Radio Frequency Systems
Secom Systems
Simulcast Solutions
Talley Communications
TelePath
Tunnel Radio of America
TX RX Systems
VoCom Products
Webster Communications
WPCS
Young Design

Amplifiers: Towertop

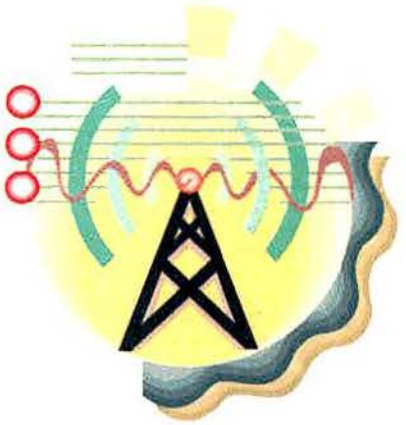
ADC
Aerocomm
AF CommSupply
Allen Telecom
Allgon
Andrew
Auto-Comm Engineering
Beam Radio
Benelec
Bravo Tech
Communication Engineers
Conductus
CTT
Davicom Technologies
Decibel Products
Electro-Comm Dist
Electronic Products
EMR
Fort Worth Tower
Hazeltine
Jack Daniel Company
JB Spectra
Manon Engineering
Paging & Wireless Service Center
Primus Electronics
Radio Frequency Systems
Remec Wacom
Secom Systems
Sinclair Technologies
Spinner North America
Talley Communications
Telewave
TX RX Systems
Webster Communications
Young Design

Antennas: Base

AAT Communications Systems
Adams Distributing
Advanced Test Equipment Rentals/ATEC
AF CommSupply
Allgon
Aluma Tower
Andrew
Antenex
Antenna Factor
ArrayComm
Astron Antenna
Beam Radio
Benelec
Childs Antennas
Comark Distributing
Communications & Signals
Comprod Communications
Comtelco Industries
Consultant-Log Electronics
CSS Power
Cubic Communications
Cushcraft
D&L Communications
D&R Associates
Danmax Communication
DAPA Communications
Davicom Technologies
Decibel Products
DH Marketing
DP Electronics
Electro-Comm Dist
Electronic Products
EMR
Falcon Wireless
Gabriel Electronics
GEIGER Communications
General Communications
Harris RF Communications
Hazeltine
Herb Kreckman Company
Hill Radio Communications
Hirschmann Electronics
Huber + Suhner
Hutton Communications
Inwave
Jack Daniel Company
Jan Communications & Electronics
Kathrein
Les Wallen USA
Lyncole XIT Grounding
Manon Engineering
Marketronics
Maxrad
MCM Electronics
Mechem Electronics
MFJ Enterprises
Mobile Mark
Morcom International
Motorola Aftermarket Products
Motorola Land Mobile
NCG/COMET Antenna
Nearson
Newtronics Antenna
Paging & Wireless Service Center
Polaris Industries
Primus Electronics
Procomm USA
Radiall/Larsen Antenna Technologies
Radio Communications Wholesalers
Radio Frequency Systems
Sabre Communications
Samco Antennas
Schaefer Radio
Secom Systems
Sinclair Technologies
Sky Probes/Modublox
SuperPass
Talley Communications
TelePath
Telewave
TESSCO
TX RX Systems
Ultra RF
Webster Communications
World Communications
Xertex Technologies
Young Design

Antennas: Mobile

AAT Communications Systems
Accele Electronics
Adams Distributing
AF CommSupply
Allgon
Aluma Tower
Andrew
Antenex
Antenna Factor
Antenna Specialists
Antenna World
Astron Antenna
Beam Radio
Benelec
Centurion Wireless Technologies
Childs Antennas
Comark Distributing
Communications & Signals
Comprod Communications
Comtelco Industries
Consultant-Log Electronics
CTB Wireless
Cubic Communications
Cushcraft
D&L Communications
D&R Associates
Danmax Communication
Davicom Technologies
DH Marketing
Electro-Comm Dist
Electronic Products
EMR



Representing tower and rooftop owners in site leases, ground leases, management agreements, easements, and other site contracts since 1984.

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- Tower Leases and Site Rental Agreements
- Contract Preparation and Negotiation
- Litigation, Including Harmful Interference Complaints
- FCC Auction Representative
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CIRCLE (62) ON FAST FACT CARD

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GEIGER Communications
General Communications
Harris RF Communications
Hirschmann Electronics
Hutton Communications
Inwave
Jan Communications & Electronics
JB Communications
Kenwood Communications
Kenwood Systems
LBA Technology
Les Wallen USA
Manon Engineering
Maxrad
MCM Electronics
Mechem Electronics
MFJ Enterprises
Mobile Mark
Monicor Electronics
Morcom International
Motorola Aftermarket Products
Motorola Land Mobile
Mountain Communications
NCG/COMET Antenna
Nearson
Newtronics Antenna
Paging & Wireless Service Center
Polaris Industries
Primus Electronics
Procomm USA
Radiall/Larsen Antenna Technologies
Radio Communications Wholesalers
Sabre Communications
Samco Antennas
Schaefer Radio
Secom Systems
SGC
Sinclair Technologies
Smith Communications Service
STI-CO Industries
SuperPass
Talley Communications
TelePath
TESSCO
Ultra RF
Webster Communications
WEH Mfg, The Untenna Company
World Communications
Xertex Technologies

Antennas: Portable

AAT Communications Systems
Adams Distributing
AF CommSupply
Aluma Tower
Amplifier Research
Antenex
Antenna Factor
Antenna World
Astron Antenna
Beam Radio
Centurion Wireless Technologies
Childs Antennas
Comark Distributing
Communications & Signals
Comprod Communications
Consultant-Log Electronics
Cushcraft
D&L Communications
D&R Associates
Danmax Communication
Davicom Technologies
DH Marketing
Earmark
Electro-Comm Dist
Electronic Products
Falcon Wireless
General Communications
Harris RF Communications
Hutton Communications
Inwave
Jan Communications & Electronics
JB Communications
Kenwood Communications
Kenwood Systems
LBA Technology
Les Wallen USA
Manon Engineering
Maxrad
MCM Electronics
Mechem Electronics
MFJ Enterprises
Mobile Mark
Monicor Electronics
Morcom International
Motorola Aftermarket Products
Motorola Land Mobile
Mountain Communications
NCG/COMET Antenna
Nearson
Newtronics Antenna
Polaris Industries
PREMIER Communications
Primus Electronics
Procomm USA
Radiall/Larsen Antenna Technologies
Radio Communications Wholesalers
Sabre Communications
Samco Antennas
Schaefer Radio
Secom Systems
Sky Probes/Modublox
Smith Communications Service
STI-CO Industries
Stuart Electronics
SuperPass
Talley Communications
TelePath
TESSCO
Ultra RF
Xertex Technologies

Automatic number identification

Adams Distributing
AF CommSupply
Auto-Comm Engineering
Autocode
Baker Integrated Technologies
Beam Radio
CES Wireless Technologies
Cimarron Technologies
Communications & Signals
Communications Specialists
Control Signal
Data Signal
Electro-Comm Dist
EPCOM
Global Dispatch Technology
Intergraph Public Safety
Jan Communications & Electronics
Midian Electronics
NorComm
Penta
Pipo Communications
Plant Equipment
Rayfield Communications
Secom Systems
Selectone
Sigtec America
Synetcom Digital
Talley Communications
Tekno Telecom
VisionAir
Zetron

Automatic vehicle location (AVL)

AAT Communications Systems
Adams Distributing
Auto-Comm Engineering
Avel-Tech
AVL Information Systems
Beam Radio
CES Wireless Technologies
Cimarron Technologies
Communications & Signals
Connect Systems
Cooks Communications
CRN Telemetry Devices
Data Express
DataBurst Technologies
Dataradio
Dinet
Diplomat UK
Eagle Wireless International
EPCOM
GEIGER Communications
Global Dispatch Technology
HTE
IDA
Intergraph Public Safety
Jan Communications & Electronics
Kantronics
KAVlcomm
Kensington & Icknield
King Communications USA
LOCSYS
Mentor Engineering
Padcom
PREMIER Communications
Printrak, A Motorola Company
Quality Mobile Communications
Radio Communications Wholesalers
Secom Systems
Sigtec America
Southern LINC
Spillman Technologies
Synetcom Digital
Tadiran
Tekno Telecom
TriTech Software Systems
Veridian
VisionAir
Wisco International
WPCS
Zebryk Engineering

Batteries, portable

Acheson Colloids
Battery Products
Centurion Wireless Technologies
JBRO Batteries
Multiplier Industries
NCG/COMET Antenna
Procomm USA
Radio Wholesale
Stuart Electronics
Talley Communications
Webster Communications

Batteries, stationary

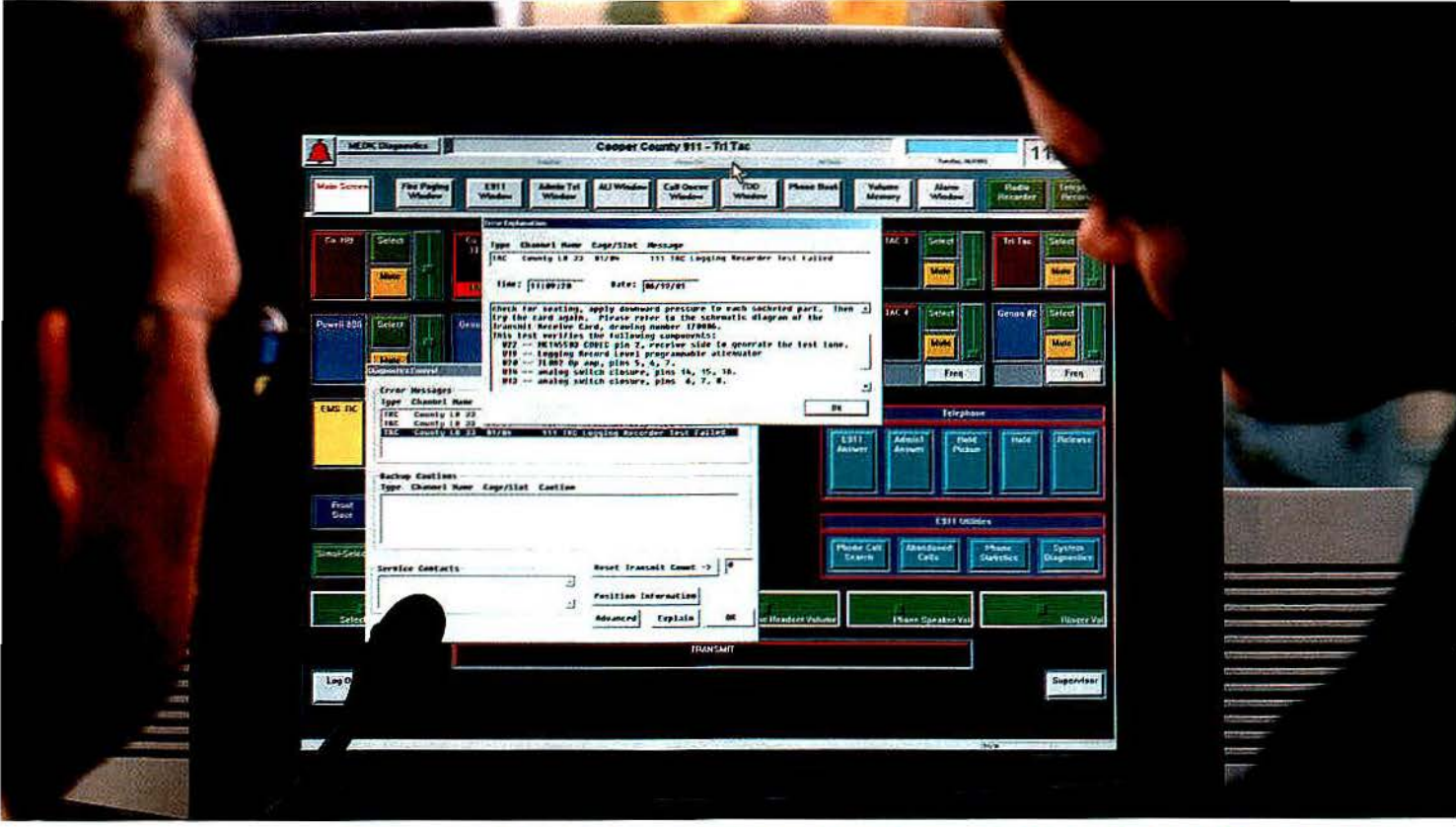
Battery Products
JBRO Batteries
LaMarche Mfg
PowerLink Technologies
Talley Communications

Battery chargers, testers & charger analyzers

Accele Electronics
Accutech
Adams Distributing
Adcour
Advanced Battery Systems
Advanced Charger Technology
AdvanceTec Industries
AF CommSupply
Air Comm
Alexander Technologies
Andrew
Argus Technologies
Astratec Electronics
Atlantic Solar Products
Auto-Comm Engineering
AVO International
AW Sperry Instruments
Battery Products
BatteryPro Systems
Beam Radio
Benelec
Cadex Electronics
CAIG Laboratories
Comm-Net 2000 Comm & Mfg
Communication Engineers
Communications & Signals
Compuquest
Contact East
Copeland Engineering
CSI/Speco
CSS Power
CTB Wireless
D&L Communications
Danmax Communication
DH Marketing
Direct Power & Water
Dowit Service
Duracell
DX Radio Systems
E-Tronics
Electro-Comm Dist
Elenco Electronics
Falcon Wireless
Gemini Industries
General Communications
Harris RF Communications
Hendry Telephone Products
HMC Electronics
Hutton Communications
ICT
Inwave
iTech
Jan Communications & Electronics
JBRO Batteries
Klein Electronics
LaMarche Mfg
Manon Engineering
Marketronics
MCM Electronics
Midtronics
Morcom International
Motorola Aftermarket Products
Motorola Land Mobile
Mountain Communications
Multiplier Industries
Newmar
Panasonic Communications Systems
Plainview Batteries
PREMIER Communications
Primus Electronics
Pulse Power
Radio Communications Wholesalers
Radio Wholesale
Samlex America
Schaefer Radio
Secom Systems
Smith Communications Service
Southwest Windpower
Sunelco
Talley Communications
TelePath
TESSCO
The Battery Connector
Transportation Safety Devices
VCP International
W&W Manufacturing
Webster Communications
Wireless Vertical.com
Wisco International

Cases for portable equipment; radio harnesses

Accutech
Adams Distributing
AF CommSupply
AW Enterprises
Bee Electronics
Comark Distributing
Communications & Signals
Contact East
CTB Wireless

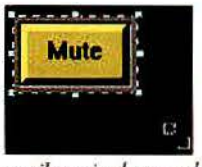


50% LOWER SUPPORT COSTS. HIGHER RELIABILITY. BUILT-IN DIAGNOSTICS. THE RADIO DISPATCH OF THE FUTURE IS HERE.

MEDIC Diagnostics

Our state of the art built in diagnostics not only spots trouble, it recommends immediate corrective action. This could mean up to a 50% savings in support costs.

MEDIC even spots trouble down to the component level. It's always running in the background to maximize uptime and minimize costs.



Users can easily customize any screen to their needs. Buttons can be easily resized, moved and changed.

Welcome to the future. The Radio Dispatch component of the new Moducom UltraCom 2000™ E911/Radio Dispatch Console System contains our MEDIC Automatic & Manual Diagnostics. MEDIC constantly works to find faults and automatically switches to back up resources when needed. It identifies problems down to the circuit level indicating corrective action often enabling repair by non-technical staff. You could save up to 50% on support costs.

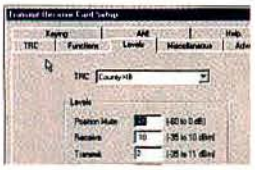
This is an all digital 32-bit Windows 2000 NT system, built by us from the ground up - not an assembly of multiple systems. Our 100% user programmable touch screens are simple to use. We build in dual instant recall recorders at no extra cost. And all software upgrades are always free.

Every UltraCom 2000 radio Dispatch console system contains all the software and most of the hardware necessary for a state of the art E911 system. Radio Dispatch and E911 in one single software application means lower costs, greater reliability and more flexibility.

Join the future. Contact Moducom today to learn more about truly cost effective Radio Dispatch.

MODUCOM

COST EFFECTIVE NOW.
MORE COST EFFECTIVE OVER TIME.



System changes can now be made by users instead of expensive factory programmers. Levels on audio channels can be easily adjusted.

E911 is part of the UltraCom 2000 system software. This means you only need to add minimal hardware to obtain a single application radio dispatch and E911 console system.

E911 Window

Free Demo

Demo our cost saving system software at www.moducom.com or order a demo disk today at 818-764-1333

MODULAR COMMUNICATION SYSTEMS, INC. 13309 SATICOY ST. NORTH HOLLYWOOD, CA 91605. E-MAIL: moducom@ix.netcom.com

CIRCLE (9) ON FAST FACT CARD

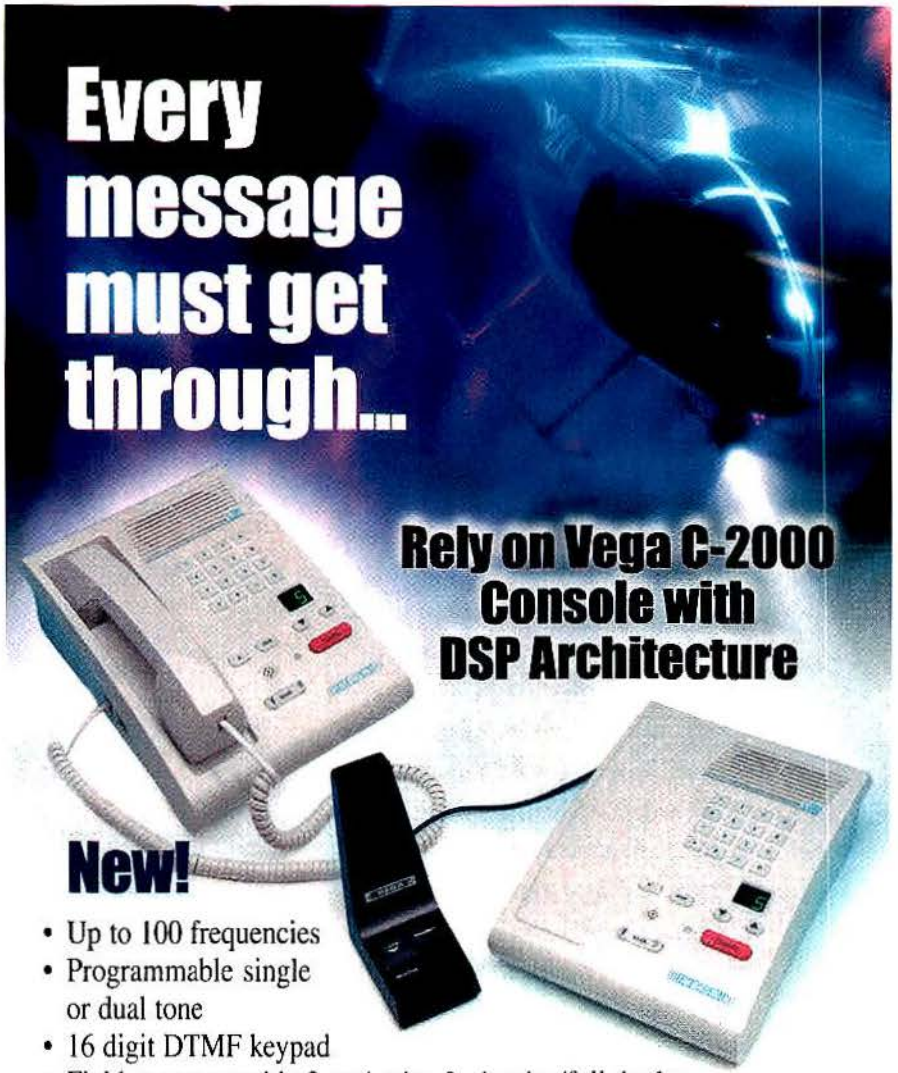
Delcom Industries
Electro-Comm Dist
Gemini Industries
General Communications
HMC Electronics
Hutton Communications
Inwave
Jan Communications & Electronics
Klein Electronics
Leathersmith
Lone Peak Designs
Motorola Aftermarket Products
Mountain Communications
Newmar
PJ International Leathercrafts
Primus Electronics
Radio Communications Wholesalers
Radio Wholesale
Raine
Secom Systems
Talley Communications
TelePath
TESSCO

Cellular, accessories

Accele Electronics
Accutech
Advance Label & Tag
AdvanceTec Industries
AEA
AF CommSupply
Allen Telecom
Allgon
Anchor Graphics
Andrew
Antenna Specialists
Audiovox
Auto-Comm Engineering
AW Enterprises
Battery Products
Bee Electronics
CAIG Laboratories
ChargeGuard
Comark Distributing
Creative Solutions
CTB Wireless
D&L Communications
DataBurst Technologies
Dinet
DW Electrochemicals
Electro-Comm Dist
Gemini Industries
General Communications
Hirschmann Electronics
Hulse Enterprises
Hutton Communications
ICT
InFoRad
Inmetco
Inwave
iTech
Jan Communications & Electronics
JB Communications
Johnson Controls
Jotto Desk
Kensington & Icknield
Klein Electronics
Merry Electronics
Motorola Aftermarket Products
Mountain Communications
NEC America
Northern Technologies
Panasonic Communications Systems
PanaVise Products
Plantronics
Primus Electronics
Pro-Fit International
Pulse Power
Quick Draw Clip Systems
Radio Communications Wholesalers
RadioMate
Raine
RF Connectors
RF Industries
Samlex America
Sharp Communication
Shure Communications
SMC - Signal Measurement
Synetcom Digital
Talley Communications
TESSCO
Transtector Systems
Viziflex Seels

Cellular, antennas

Accele Electronics
AF CommSupply
Allgon
Andrew
Antenex
Antenna Factor
Antenna Specialists
Antenna World
Astron Antenna
Auto-Comm Engineering
Battery Products
Benelec
Centurion Wireless Technologies
Childs Antennas
Comark Distributing
CTB Wireless
Cushcraft
D&L Communications
Davicom Technologies
Electro-Comm Dist
Gabriel Electronics
General Communications
Hirschmann Electronics
Huber + Suhner
Hulse Enterprises
Hutton Communications
Jan Communications & Electronics
JB Communications
Kathrein
Klein Electronics
Manon Engineering
MCM Electronics
Metawave Communications
Mobile Mark



CIRCLE (10) ON FAST FACT CARD

High-end analyzer. Low-end price: Only $8,995.

If you're looking for high-range capabilities at a low-range price, look to the General Dynamics R2590 Communications System Analyzer — from the same people that bring you the popular R2600 series. We've packed the most essential features into one lightweight, light-on-the-budget analyzer. So now, for only $8,995, you can get a 1.0 GHz RF Generator and Receiver, Full-Band Duplex, a 50 KHz Oscilloscope, Spectrum Analyzer and much, much more.

The new R2590 is such an exceptional value, now you can afford to equip each of your technicians with a powerful test instrument.

Contact us at http://www.gd-decisionsystems.com or call us toll free at 1-877-449-0600 or 1-480-726-1048, today. At this price, everyone can afford to be in analysis!

CIRCLE (11) ON FAST FACT CARD

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Motorola Aftermarket Products
Mountain Communications
Nearson
Newtronics Antenna
Primus Electronics
Radiall/Larsen Antenna Technologies
Radio Communications Wholesalers
Radio Frequency Systems
RSI Wireless Communications
Secom Systems
Sky Probes/Modublox
Stuart Electronics
Talley Communications
TESSCO
Wireless Vertical.com

Cellular, phones

Audiovox
Auto-Comm Engineering
Comark Distributing
CTB Wireless
D&L Communications
Danmax Communication
Dinet
Electro-Comm Dist
Escotel Software
Inmetco
Jan Communications & Electronics
Klein Electronics
Mountain Communications
NEC America
Panasonic Communications Systems
Quick Draw Clip Systems
Radio Communications Wholesalers
Southern LINC
TESSCO
Viziflex Seels
Wireless Vertical.com

Channel elements and TCXOs

Air Comm
Auto-Comm Engineering
Channel Element HQ
Communication Engineers
Hy-Q International
ICM Communications
Jan Communications & Electronics
Motorola Aftermarket Products
NKX
PCI-Pekaar Communication
Piezo Technology
Solid-State Electronics
Spectracom

Coaxial cable

Aerocomm
AF CommSupply
Allcom Products
Allen Telecom
Andrew
Anritsu
Antenex
Antenna World
Benelec
Childs Antennas
CommScope Cable Technology Center
Cushcraft
CZ Labs
Decibel Products
Delcom Industries
DH Marketing
DX Radio Systems
EAGLE
Electro-Comm Dist
Gabriel Electronics
Huber + Suhner
Hutton Communications
Jack Daniel Company
JB Communications
Marketronics
Micro-Coax
Nemal Electronics International
NK Cables USA
Polaris Industries
Primus Electronics
Radiall/Larsen Antenna Technologies
Radio Communications Wholesalers
Radio Frequency Systems
RF Connectors
RF Industries
Sinclair Technologies
Spinner North America
SRC Cables
Talley Communications
Telewave
Times Microwave Systems
Tower Connections
Trilogy Communications

Combiners

ADC
Aerocomm
AF CommSupply
Allen Telecom
Allgon
Benelec
Comprod Communications
Decibel Products
DH Marketing
DX Radio Systems
EAGLE
Electro-Comm Dist
EMR
Fiplex
Hutton Communications
International Fiberoptic Technologies
Jack Daniel Company
JB Spectra
JFW Industries
Johnson Controls
L-3 Communications
Manon Engineering
Microlab/FXR
Microwave Filter
NCG/COMET Antenna
Primus Electronics
Pulsar Microwave
Radio Frequency Systems
Remec Wacom LP
Salisbury Engineering
Schaefer Radio
Secom Systems
Sinclair Technologies
Spinner North America
Talley Communications
Telewave
Teracom Components
TX RX Systems
Webster Communications

Computer-aided dispatch

Amtelco
Application Data Systems

CIRCLE (12) ON FAST FACT CARD

Avel-Tech
Beam Radio
CES Wireless Technologies
Communications & Signals
Data Express
DataBurst Technologies
Dinet
Diplomat UK
DM Data
DX Radio Systems
Falcon Wireless
Global Dispatch Technology
GTE
HTE
IDA
Indico
InFoRad
Intergraph Public Safety
KAVIcomm
Kensington & Icknield
King Communications USA
Lucent Public Safety
MaSys
Mentor Engineering
Midian Electronics
Modular Communication Systems
Motorola
New World Systems
Open Software Solutions
Orbacom Communications Integrator
Orbacom Systems
Padcom
PRC Public Sector
Printrak A Motorola Company
Public Safety Systems (PSSI)
Rayfield Communications
ServicePlus
Sigtec America
Southern Linc
Spillman Technologies
Synetcom Digital
TCI (Tel Control)
Tiburon
TriTech Software Systems
Viking Technology
VisionAir
Wireless Links
WPCS
Zebryk Engineering

Connectors

Accele Electronics
Adams Distributing
ADC
AF CommSupply
Allen Telecom
Andrew
Anritsu
Antenex
Antenna World
Astrolab
Auto-Comm Engineering
AVA Electronics
Baytech
Beam Radio
Benelec
Burndy Electrical
CAIG Laboratories
CESCO
Childs Antennas
Comark Distributing
CommScope Cable Technology Center
Communication Engineers
Communications & Signals
CompuSource
Contact East
Cushcraft
CZ Labs
Davicom Technologies
David Levy Company
Decibel Products
Delta Electronics Mfg
DH Marketing
DP Electronics
DW Electrochemicals
DX Radio Systems
Electro-Comm Dist
Flexco Microwave Inv
Gabriel Electronics
Harger Lightning & Grounding
Hill Radio Communications
Huber + Suhner
Hutton Communications
Jack Daniel Company
Jan Communications & Electronics
JB Communications
Kaval Telecom
Marketronics
Mason Electric
MCM Electronics
Merry Electronics
MFJ Enterprises
Nearson
Nemal Electronics International
NK Cables USA
Polaris Industries
PowerLink Technologies
Precision Tube
Primus Electronics
Radiall/Larsen Antenna Technologies
Radio Communications Wholesalers
Radio Frequency Systems
RF Connectors
RF Industries
Richardson Electronics
Spinner North America
Stuart Electronics
Superior Electric
Talley Communications
Telewave
Teracom Components
TESSCO
Times Microwave Systems
Tower Connections
Transtector Systems
Trilogy Communications
Trompeter Electronics
Tru-Connector
Webster Communications
Wisco International

Consoles

AAT Communications Systems
Adams Distributing
Auto-Comm Engineering
Avtec
B&C Communications
Baker Integrated Technologies
Beam Radio
Bramic Creative Business Products
Catalyst Communications Technologies
CES Wireless Technologies
Communications & Signals
Concept Seating
Cruisers
Dispatch Products
Durham Communications
DX Radio Systems
Dynamic Instruments
Equipto Electronics
Evans Consoles
GAI-Tronics
Gamber-Johnson
General Communications
Harris RF Communications
IDA
Jan Communications & Electronics
Jon/Beau
Jotto Desk
JPS Communications
Kustom Signals
L & E Mobile Computers & Mounts
Lund Industries
M/A-COM Wireless Systems
Manon Engineering

Q. How do you measure the invisible accurately?
Turn page for answer.
CIRCLE (14) ON FAST FACT CARD

Modular Communication Systems
Motorola

Orbacom Communications Integrator
Orbacom Systems
Penta
PMC Assoc
Radio Resources
Schaefer Radio
Secom Systems
Skaggs Telecommunications Service
SMC - Signal Measurement
Telecommunications Engineering Assoc
Telex Communications
The Winsted
Transportation Safety Devices
Troy Products
Watson Furniture Systems
Zetron

Couplers

ADC
AF CommSupply
Benelec
EMR
Harger Lightning & Grounding
International Fiberoptic Technologies
Jack Daniel Company
JB Spectra
Kathrein
Manon Engineering
Microlab/FXR
Microwave Filter
Narda-An L3 Communications Co
Pulsar Microwave
SGC
Sinclair Technologies
Spinner North America

Crystals

Adams Distributing
Auto-Comm Engineering
Bomar Crystal
Cal Crystal Lab
Channel Element HQ
Communication Engineers
Electro Dynamics Crystal
EMR
Filtronetics
Frequency Management
General Communications
Hy-Q International
ICM Communications
Jan Communications & Electronics
K-W Mfg
Kirby Enterprises
M-Tron Industries
Morcom International
Motorola Aftermarket Products
Motorola Land Mobile
NKX
Piezo Technology
Precision Devices
Richardson Electronics
Sentry Mfg

Data transmission equipment

Adams Distributing
ADC
Advanced Test Equipment Rentals/ ATEC
Aerocomm
Aerotron-Repco Systems
Alligator Communications
Beam Radio
Berkeley Varitronics Systems
Carlson Wireless Technologies
CES Wireless Technologies
Cimarron Technologies
Coherent Communications Systems
Communications & Signals
Compuquest
Comverse Technology
Contact East
CTB Wireless
Data Comm for Business
Data Express
DataBurst Technologies
Dataradio
Datron World Communications
Dialogic Communications
Dinet
Diplomat UK
EF Johnson
ElectroCom Systems
Electronic Products
Escotel Software
Futurecom Systems Group
Genave/NRC
GRE America
Hamtronics
Harris RF Communications
Henry Radio
Intraplex
JPS Communications
Kantronics
Kensington & Icknield
King Communications USA
Maxon America
Mentor Engineering
Metric Systems
Metroplex Mobile Data
Microwave Data Systems
Monicor Electronics
NCG/COMET Antenna
Novatel Wireless
Padcom
Penta
Pyramid Communications
RaCoTek
Radio Communications Wholesalers
Ranger Communications
Record/Play Tek
RF Technology
Secom Systems
Sierra Wireless
Sigtec America
Solid-State Electronics
SONIK Technologies
Synetcom Digital
Talley Communications
Telecommunications Engineering Assoc
Teledesign Systems
Telemobile
Telescada
Thales Communications
Western Multiplex
Wireless Links
World Communications
WPCS
Zebryk Engineering

Decoders and encoders

Adams Distributing
Advanced Signal
AF CommSupply
Air Comm
Alligator Communications
Auto-Comm Engineering
B&C Communications
Beam Radio
CES Wireless Technologies
Cimarron Technologies
Communication Engineers
Communications & Signals
Communications Specialists
Compuquest
Conway Engineering
Cromack Industries
CTI
D&L Communications
Data Signal
Dataprobe
DH Marketing
Dinet
Diplomat UK
Eagle Wireless International
ECOM Systems
Electro-Comm Dist
Electronic Products
Genave/NRC
Gronel Assoc
Hamtronics
Hark Systems
Hutton Communications
Jan Communications & Electronics
Kantronics
Lucent Technologies
Manon Engineering
Mechem Electronics
Midian Electronics
Monroe Electronics
MX-COM
NorComm
NS Electronics Service
Optoelectronics
Penta
Pipo Communications
Primus Electronics
Ramsey Electronics
RELM Wireless
RF Industries
Secom Systems
Selectone
SmartLink Development Network
SONIK Technologies
Spectrum Communications
Synetcom Digital
Talley Communications
Telex Communications
TESSCO
Thunder Eagle
Veetronix
Zetron

Direction-finders

CES Wireless Technologies
Communications & Signals
Cubic Communications
Dialogic Communications
Doppler Systems
General Communications
L-Tronics
Rohde & Schwarz
Simrad
SWS Security
Synetcom Digital
Telephonics
Z-Technology

Duplexers

ADC
Aerocomm
AF CommSupply
Allen Telecom
Antenex
Beam Radio
Benelec
Comprod Communications
CW Wolfe Communications
Delcom Industries
DH Marketing
DX Radio Systems
Electro-Comm Dist
EMR
Fiplex
GEIGER Communications
Hutton Communications
International Fiberoptic Technologies
Jack Daniel Company
JB Spectra
Kathrein
L-3 Communications
Manon Engineering
Narda-An L3 Communications Co
Primus Electronics
Radio Communications Wholesalers
Radio Frequency Systems
Remec Wacom LP
Salisbury Engineering
Schaefer Radio
Sinclair Technologies
Talley Communications
Telewave
TX RX Systems
Webster Communications

Fiber-optic cable and materials

AF CommSupply
Benelec
Burndy Electrical
CommScope Cable Technology Center
Huber + Suhner
International Fiberoptic Technologies
Jack Daniel Company
Polaris Industries
Radiall/Larsen Antenna Technologies
Visual Identification Products

Filters

ADC
Aerocomm
AF CommSupply
Allen Telecom
Allgon
American Nucleonics
Beam Radio
Comprod Communications
Decibel Products
EAGLE
EMR
Filtronetics
Huber + Suhner
Hutton Communications
ICM Communications
ICT
Jack Daniel Company
JB Spectra
Kathrein
Lindgren RF Enclosures
Manon Engineering
Microwave Filter
Narda-An L3 Communications Co
Piezo Technology
Precision Devices
Radio Frequency Systems
Remec Wacom
Salisbury Engineering
Secom Systems
Sinclair Technologies
Talley Communications
Telewave
Translectric
TX RX Systems

GPS antennas

AF CommSupply
Allen Telecom
Antenex
Antenna Factor
Antenna Specialists
Antenna World
Astron Antenna
Avcom-Ramsey Technologies
Beam Radio
Benelec
Centurion Wireless Technologies
CES Wireless Technologies
DH Marketing
DX Radio Systems
Electro-Comm Dist
GTE
Hirschmann Electronics
King Communications USA
L & E Mobile Computers & Mounts

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Just ask Narda!

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- *Precise, spatially-averaged measurements*
- *Ergonomically designed*

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- *100 kHz to 100 GHz range*

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Mobile Mark
Primus Electronics
Quality Mobile Communications
Radiall/Larsen Antenna Technologies
Radio Communications Wholesalers
Spectracom
SuperPass
Talley Communications
Webster Communications
WPCS

GPS receivers

AF CommSupply
Beam Radio
Bravo Tech
CES Wireless Technologies
Dataradio
Dinet
Diplomat UK
DX Radio Systems
ESE
GTE
Jensen Tools
King Communications USA
MCM Electronics
Midland Land Mobile Radio
Radio Communications Wholesalers
Simulcast Solutions
Spectracom
SuperPass
Tadiran
Talley Communications
WPCS

Grounding systems

AF CommSupply
Beam Radio
Burndy Electrical
DH Marketing
DX Radio Systems
Electro-Comm Dist
ERI-Electronics Research
Gabriel Electronics
Harger Lightning & Grounding
Jackson Telcom
Lightning Eliminators & Consultants
Lyncole XIT Grounding
PowerLink Technologies
Primus Electronics
Ruf*Nek Building Systems
Talley Communications
Webster Communications

Headsets

Accele Electronics
Adams Distributing
Aearo
AF CommSupply
Auto-Comm Engineering
B&C Communications
Benelec
CeoTronics
Communications & Signals
CommuniTech
Creative Solutions
CTB Wireless
David Clark
DH Marketing
DX Radio Systems
Earmark
Eartec
Electronic Products
General Communications
Hutton Communications
Inwave
Jan Communications & Electronics
Klein Electronics
Mason Electric
Merry Electronics
Metro Tel
Motorola Aftermarket Products
Motorola Land Mobile
New Eagle International
OTTO Communications
Paging & Wireless Service Center
Plantronics
PREMIER Communications
Primus Electronics
R-Columbia Products
Radio Communications Wholesalers
RadioMate
Richardson Electronics
Secom Systems
Setcom
Sigtronics
Sonetics
Talley Communications
Telephonics
Television Equipment Assoc
Telex Land Mobile Products
TESSCO
TwitCo Distributing
VXI
Wireless Vertical.com

HVAC systems, shelter

Bard Mfg
Dupont Building
Marvair
Ruf*Nek Building Systems

Interconnects, including message accounting

CES Wireless Technologies
Connect Systems
Danmax Communication
Data Signal
DH Marketing
Dialogic Communications
Falcon Wireless
Hark Systems
IDA
JPS Communications
Link Communications
Midian Electronics
Penta
Primus Electronics
Secom Systems
Service Level
Sigtec America
TESSCO
Zetron

Interference cancellors

American Nucleonics
EAGLE

Inverters and dc-to-dc converters

Adams Distributing
Aerocomm
AF CommSupply
Applied Power
Argus Technologies
Astron
Atlantic Solar Products
Auto-Comm Engineering
Benelec
Communications & Signals
Direct Power & Water
Electro-Comm Dist
Electronic Products
Exeltech
General Communications
Harris RF Communications
Hendry Telephone Products
Hutton Communications
ICT
Jan Communications & Electronics
LaMarche Mfg
Les Wallen USA
Lind Electronics
MCM Electronics
Motorola Aftermarket Products
Newmar
Power Conversion Products
PowerLink Technologies
Primus Electronics
Radio Communications Wholesalers
Richardson Electronics
Samlex America
Sunelco
Taiyo Yuden (U.S.A),
Talley Communications
TESSCO
Translectric
Transportation Safety Devices
Tripp Lite
ValueTronics International
Wilmore Electronics

Isolators

AF CommSupply
Beam Radio
Benelec
EAGLE
Electro-Comm Dist
EMR
Fiplex
Jack Daniel Company
JB Spectra
Manon Engineering
Narda-An L3 Communications Co
Positron
Remec Wacom
Sinclair Technologies
Talley Communications
Telewave
Transportation Safety Devices
TX RX Systems

Lightning and surge protectors

AC Data Systems
Adams Distributing
Allcom Products
Alltec
Andrew
Antenex
Argus Technologies
Auto-Comm Engineering
Beam Radio
Benelec
CESCO
Citel America
Communications & Signals
CommuniTech
Compuquest
CompuSource
Contact East
Cortana
Crescent Communications Services
Cushcraft
Cutler-Hammer
Davicom Technologies
Delcom Industries
Direct Power & Water
DX Radio Systems
Electro-Comm Dist
Electronic Products
ERI-Electronics Research
Fort Worth Tower
General Communications
Harger Lightning & Grounding
HMC Electronics
Huber + Suhner
Hutton Communications
ICT
Industrial Communication Engineers
Jackson Telcom
Jan Communications & Electronics
LBA Technology
Les Wallen USA
Liebert
Lightning Deterrent
Lightning Eliminators & Consultants
Lightning Prevention Systems
Lyncole XIT Grounding
Manon Engineering
MCG Surge Protection
MCM Electronics
Microlab/FXR
Motorola Aftermarket Products
Motorola Land Mobile
Northern Technologies
Positron
PowerLink Technologies
Precision Tube
Primus Electronics
Radio Frequency Systems
Richardson Electronics
Sabre Communications
Samlex America
Sinclair Technologies
Spinner North America
Superior Electric
Talley Communications
Teracom Components
TESSCO
Tower Connections
Transtector Systems
Tripp Lite
Webster Communications
Zetron

Loads

Advanced Receiver Research
Advanced Test Equipment Rentals/ ATEC
AF CommSupply
Astrolab
Auto-Comm Engineering
AVA Electronics
Benelec
Bird Electronic
Coaxial Dynamics
Communications & Signals
Davicom Technologies
Electro-Comm Dist
Emerson & Cuming Microwave Products
EMR
Hutton Communications
Jack Daniel Company
JFW Industries
Johnson Controls
Kathrein
Kintronic Labs
LBA Technology
Manon Engineering
MCM Electronics
MFJ Enterprises
Microlab/FXR
Motorola Aftermarket Products
Narda-An L3 Communications Co
Precision Tube
Primus Electronics
Remec Wacom
RF Connectors
RF Industries
Sinclair Technologies
Spinner North America
Talley Communications
Telephonics
Telewave
TESSCO
Trilithic Wireless
Trompeter Electronics
ValueTronics International
Webster Communications

Logging recorders

AAT Communications Systems
Advanced Test Equipment Rentals/ ATEC
Am/Comm Systems
Astro-Med
Atis
Auto-Comm Engineering
Baker Integrated Technologies
Compuquest
Comverse Information Systems
CVDS
DH Marketing
Dictaphone

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this issue of *MRT*

and you just

can't wait for more ...

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Technical information for private trunked and public safety networks

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EF Johnson
Eventide
Eyretel
Fluke
General Communications
JEI Communications Recording System
M/A-COM Wireless Systems
Omnicron Electronics
Paging & Wireless Service Center
Record/Play Tek
Schaefer Radio
Stancil
StateLine Communications
Swift Computers
Synetcom Digital
TEAC America,
Tekno Telecom
Telescada
Thales Communications
VLR Communications
VXI
Zetron

Microphones: Base station mics

AF CommSupply
Beam Radio
Benelec
EF Johnson
Klein Electronics
Primus Electronics
Radio Communications Wholesalers
Schaefer Radio
Shure Communications
Talley Communications

Microphones: Mobile mics

AF CommSupply
Beam Radio
Benelec
CES Wireless Technologies
Crescent Communications Services
David Levy Company
EF Johnson
Klein Electronics
Mason Electric
Midian Electronics
Paging & Wireless Service Center
Primus Electronics
Radio Communications Wholesalers
Ranger Communications
Schaefer Radio
Secom Systems
Shure Communications
Talley Communications
VXI

Microphones: Portable mics

AF CommSupply
Beam Radio
David Levy Company
EF Johnson
Klein Electronics
Mason Electric
OTTO Communications
Primus Electronics
Radio Communications Wholesalers
Schaefer Radio
Secom Systems
Shure Communications
Talley Communications
Television Equipment Assoc

Microwave Equipment

AAT Communications Systems
ADC
AF CommSupply
Allgon
Anritsu
Astrolab
Auto-Comm Engineering
Berkeley Varitronics Systems
Communications & Signals
D&L Communications
Delcom Industries
DH Marketing
DMC Stratex Networks
DMS
DP Electronics
Electronic Products
Emerson & Cuming Microwave Products
Gabriel Electronics
Giga-tronics
Glenayre Electronics
Harris Microwave Communications
Hutton Communications
Microwave Data Systems
Moseley Associates
NEC America
Nutel Wireless
P-Com
Primus Electronics
Radio Frequency Systems
Richardson Electronics
RSI Wireless Communications
Sabre Communications
Simulcast Solutions
Summitek Instruments
Talley Communications
Telemobile
Telephonics
Test Equipment Connection
Tower Structures
Tru Cal International
ValueTronics International
Western Multiplex
WPCS
XL Microwave

Mobile data systems and message switches

Aether Systems Mobile Government Division
Application Data Systems
Avel-Tech
Baytech
CES Wireless Technologies
Comm-Tech International
D&L Communications
Data 911/Surview Mobile Data Systems
Data Express
DataBurst Technologies
Dataradio
Dinet
Diplomat UK
DM Data
DORR Engineering Services
ECOM Systems
EF Johnson
EJ Dort & Assoc
ElectroCom Systems
Escotel Software
Esteem Wireless Modems
General Communications
GTE
Hark Systems
Harris RF Communications
Hyde Company
IDA
Indico
InFoRad
Intergraph Public Safety
ITV
Kensington & Icknield
King Communications USA
Lucent Public Safety
Lucent Technologies
M/A-COM
MaSys
Mentor Engineering

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how high,
how far,
how fast,
how clear,
how icy,
how windy,
how wet
or
how many.

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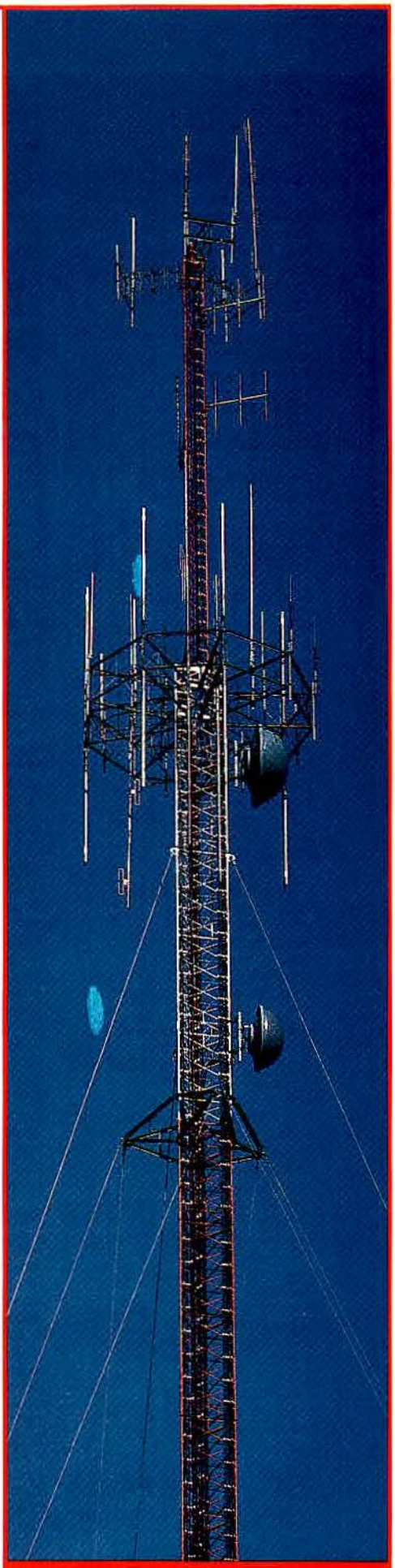


Metric Systems
Metroplex Mobile Data
Midland Land Mobile Radio
MX-COM
New World Systems
Open Software Solutions
Orbacom Communications Integrator
Orbacom Systems
Padcom
PRC Public Sector
Public Safety Management
Public Safety Systems (PSSI)
RadioMate
Sigtec America
Solid-State Electronics
Spillman Technologies
Synetcom Digital
Tekno Telecom
Telecommunications Engineering Assoc
Teledesign Systems
Tiburon
TriTech Software Systems
Viking Technology
VisionAir
WPCS
Zebryk Engineering
Zetron

Mobile data terminals

Amrel Systems
Auto-Comm Engineering
CES Wireless Technologies
Citadel Computer
Comm-Tech International
D&L Communications
Data 911/Surview Mobile Data Systems
Data Express
DataBurst Technologies
Dataradio
Datron World Communications
Dinet
Diplomat UK
DM Data
Eagle Wireless International
ECOM Systems
ElectroCom Systems
Escotel Software
Gamber-Johnson
General Communications
Global Dispatch Technology
GTE
Harris Microwave Communications
HTE
IDA
Kensington & Icknield
King Communications USA
L & E Mobile Computers & Mounts
Mentor Engineering
Metroplex Mobile Data
Motorola
Novatel Wireless
Omni-Provincial Electronics
Orbacom Communications Integrator
PanaVise Products
PRC Public Sector
Pyramid Communications
RadioMate
Scientific Dimensions
Sigtec America
SMC - Signal Measurement
Solid-State Electronics
Synetcom Digital
Talley Communications
Viziflex Seels
Wireless Links
WPCS
Zebryk Engineering
Zetron

Mobile satellite equipment

AF CommSupply
Andrew
Eagle Wireless International
Jan Communications & Electronics
Kensington & Icknield
Klein Electronics
MCM Electronics
Morcom International
Telemobile
TMI Communications
WPCS

Modems, RF

ADC
Advanced Electronics
Aerocomm
Aerotron-Repco Systems
AF CommSupply
Auto-Comm Engineering
Barnett Engineering
Beam Radio
Bravo Tech
CES Wireless Technologies
Data Comm for Business
Data Express
DataBurst Technologies
Dataradio
Diplomat UK
DM Data
DORR Engineering Services
ECOM Systems
EF Johnson
Esteem Wireless Modems
FreeWave Technologies
Grayhill
Harris Microwave Communications
Kantronics
King Communications USA
M/A-COM
Megadata
Metric Systems
Metroplex Mobile Data
Microwave Data Systems
Midian Electronics
Morcom International
Moseley Associates
MX-COM
Neulink (Div of RF Industries)
Nutel Wireless
Pacific Crest
Ranger Communications
RF Industries
SONIK Technologies
Southern LINC
Spectra Engineering
Synetcom Digital
Tactical Electronics
Talley Communications
Teledesign Systems
TelePath
World Communications
WPCS
Young Design
Zebryk Engineering

Mounts and mounting hardware

Adams Distributing
AF CommSupply
American Towers & Structures
Antenex
Astron Antenna
Audiovox
Auto-Comm Engineering
Beam Radio
Benelec
CESCO
Comark Distributing
Concept Seating
Cruisers
Destin Thomas Products
Direct Power & Water
DM Data
E Tip
Electro-Comm Dist
Engineered Endeavors,
ERI-Electronics Research
Gabriel Electronics
Gamber-Johnson
General Communications
Hartford Concrete Products
Havis- Shields Equipment
Hutton Communications
Jackson Telcom
JB Communications
Jon/Beau
Jotto Desk
L & E Mobile Computers & Mounts
Lind Electronics
Lund Industries
Manon Engineering
MCM Electronics
Middle Atlantic Products
Motorola Aftermarket Products
NCG/COMET Antenna
PanaVise Products
Primus Electronics
Pro-Fit International
Radiall/Larsen Antenna Technologies
Radio Frequency Systems
ROHN Industries
RSI Wireless Communications
Sabre Communications
Scientific Dimensions
Sinclair Technologies
SMC - Signal Measurement
Sunelco
Talley Communications
TESSCO
The Clip Company
The Winsted
Tower Structures
Towertek Industries
Transportation Safety Devices
Troy Products
Utility Tower
Valmont/Microflect

Multicouplers

Advanced Receiver Research
AF CommSupply
Beam Radio
Benelec
Comprod Communications
EMR
Fiplex
Hutton Communications
Jack Daniel Company
JB Spectra
L-3 Communications
Manon Engineering
Microlab/FXR
Primus Electronics
Radio Frequency Systems
Remec Wacom
Salisbury Engineering
Secom Systems
Sinclair Technologies
Talley Communications
Telewave
TX RX Systems
Webster Communications

Packet radio equipment

B&C Communications
CES Wireless Technologies
Data Comm for Business
DataBurst Technologies
Diplomat UK
Esteem Wireless Modems
GRE America
Kantronics
Kensington & Icknield
LOCSYS
Metric Systems
Metroplex Mobile Data
Morcom International
PREMIER Communications
Pyramid Communications
Synetcom Digital
Talley Communications
Teledesign Systems
Wireless Links
Zebryk Engineering

Pagers

Adams Distributing
Advanced Electronics
Air Comm
Auto-Comm Engineering
B&C Communications
Communication Engineers
CTI
Cue Paging
D&L Communications
Danmax Communication
Delcom Industries
DuraComm
DX Radio Systems
Falcon Wireless
Fourth Dimension Industry
General Communications
GoComm Wireless
ICM Communications
Indyme
Inmetco
Jan Communications & Electronics
L-Tronics
Leavitt Communications
Maxon America
Mechem Electronics
MobileComm
Morcom International
Motorola
Mountain Communications
NEC America
Paging & Wireless Service Center
Panasonic Communications Systems
Shinwa Communications of America
Smith Communications Service
Southern LINC
TelePath
TESSCO
United Communications
VCP International
Veetronix
Visiplex
Wetec Electronics

Paging terminals

Adams Distributing
Advanced Electronics
Auto-Comm Engineering
B&C Communications
Canamex Communications
Commonwealth Communications Industries
Communication Engineers
Compuquest
CTI
Danmax Communication
DX Radio Systems
Eagle Wireless International
Enhanced Systems
ESA Telecommunications
Escotel Software
Glenayre Electronics
Hark Systems
Indyme
Jan Communications & Electronics
Leavitt Communications
Maxon America
Mechem Electronics
Morcom International
Motorola Advanced Messaging Grp
Penta
VCP International
Visiplex
Zetron

Paging transmitters

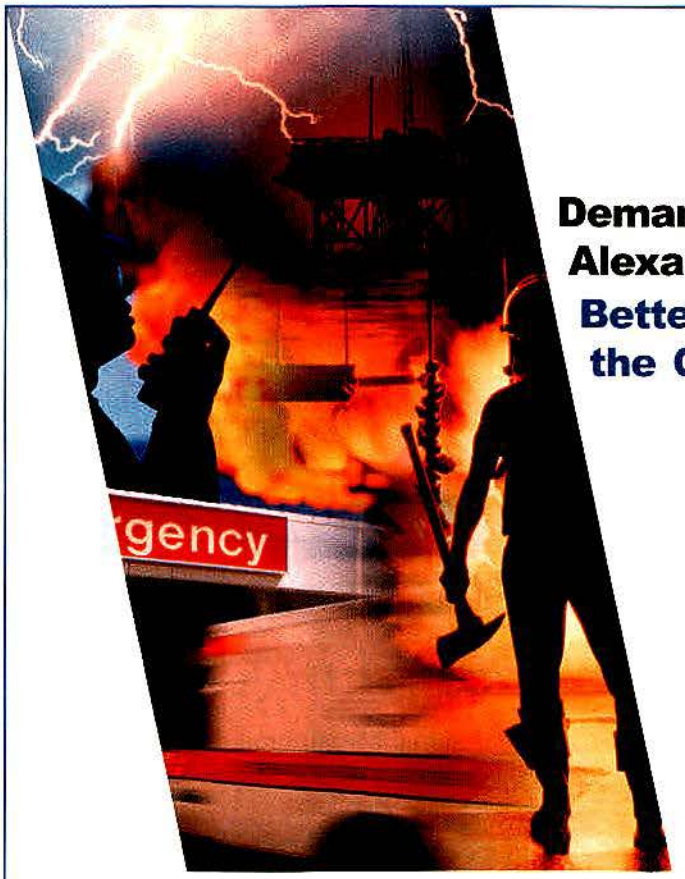
Adams Distributing
Advanced Electronics
Aerotron-Repco Systems
Auto-Comm Engineering
B&C Communications
Barnett Electronics
Berkeley Varitronics Systems
Canamex Communications
CTI
Danmax Communication
DX Radio Systems
Eagle Wireless International
General Communications
Glenayre Electronics
Indyme
Jan Communications & Electronics
Leavitt Communications
Mechem Electronics
Morcom International
Motorola Advanced Messaging Group
RF Industries
Schaefer Radio
SONIK Technologies
Spectra Engineering
Spectrum Communications
Talley Communications
TelePath
VCP International
Visiplex

Power monitors (RF)

Anritsu
Bird Electronic
Coaxial Dynamics
Narda Safety Test Solutions
Narda-An L3 Communications Co
PageTek
Sinclair Technologies
Telewave

Power supplies

Accele Electronics
Acopian Technical
Adams Distributing
Adcour
Advanced Receiver Research
Advanced Test Equipment Rentals/ ATEC
AdvancedTec Industries
AF CommSupply
Allen Telecom
Amrel Systems
Applied Power
Argus Technologies
Astron
Auto-Comm Engineering
B&K Precision/MAXTEC
Beam Radio
Benelec
Comark Distributing
Contact East
CSI/Speco
CSS Power
CVDS
David Levy Company
DuraComm
Electro-Comm Dist
Electronic Products
Elenco Electronics
Exeltech
Fluke
GEIGER Communications
Harris RF Communications
Hawker
Hendry Telephone Products
HMC Electronics
Hutton Communications
ICT
Imark Communications
Inwave
Jan Communications & Electronics
Jensen Tools
L & E Mobile Computers & Mounts
LaMarche Mfg
Liebert
Lind Electronics
Marketronics
MCM Electronics
Middle Atlantic Products
Motorola Aftermarket Products
Multiplier Industries
Newmar
Polaris Industries
Power Conversion Products
PowerLink Technologies
Primus Electronics
Radio Communications Wholesalers
Samlex America
Schaefer Radio
Secom Systems
SGC
Sharp Communication
Sinclair Technologies
Spectra Engineering
Spectrum Communications
Sunelco
Superior Electric
Taiyo Yuden (U.S.A),
Talley Communications
TESSCO
Transportation Safety Devices
Tripp Lite
Tru Cal International
ValueTronics International
VoCom Products
Webster Communications
Wilmore Electronics
XL Microwave



Demand Alexander - Better than the Original™

A 9-1-1 Battery For A 9-1-1 World™

Demand Alexander batteries and get results that outperform the original battery. Alexander's batteries are built tough, rugged enough to handle the events in this 9-1-1 world. Emergency personnel will be confident in their equipment knowing it is powered with batteries from Alexander Technologies.

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(641) 423-8955 ▲ Fax: (641) 423-1644
www.alexandertechnologies.com

CIRCLE (18) ON FAST FACT CARD

Preamplifiers

Advanced Receiver Research
Advanced Test Equipment Rentals/ ATEC
Aerocomm
AF CommSupply
Beam Radio
Jack Daniel Company
JB Spectra
Manon Engineering
Salisbury Engineering
Telewave
Tru Cal International
TX RX Systems

Programmers, NAM, PROM and others

B&K Precision/MAXTEC
Curtis Electro Devices
HMC Electronics
Mechem Electronics
Polaris Industries
Roadrunner Communications
VCP International

Racks, equipment

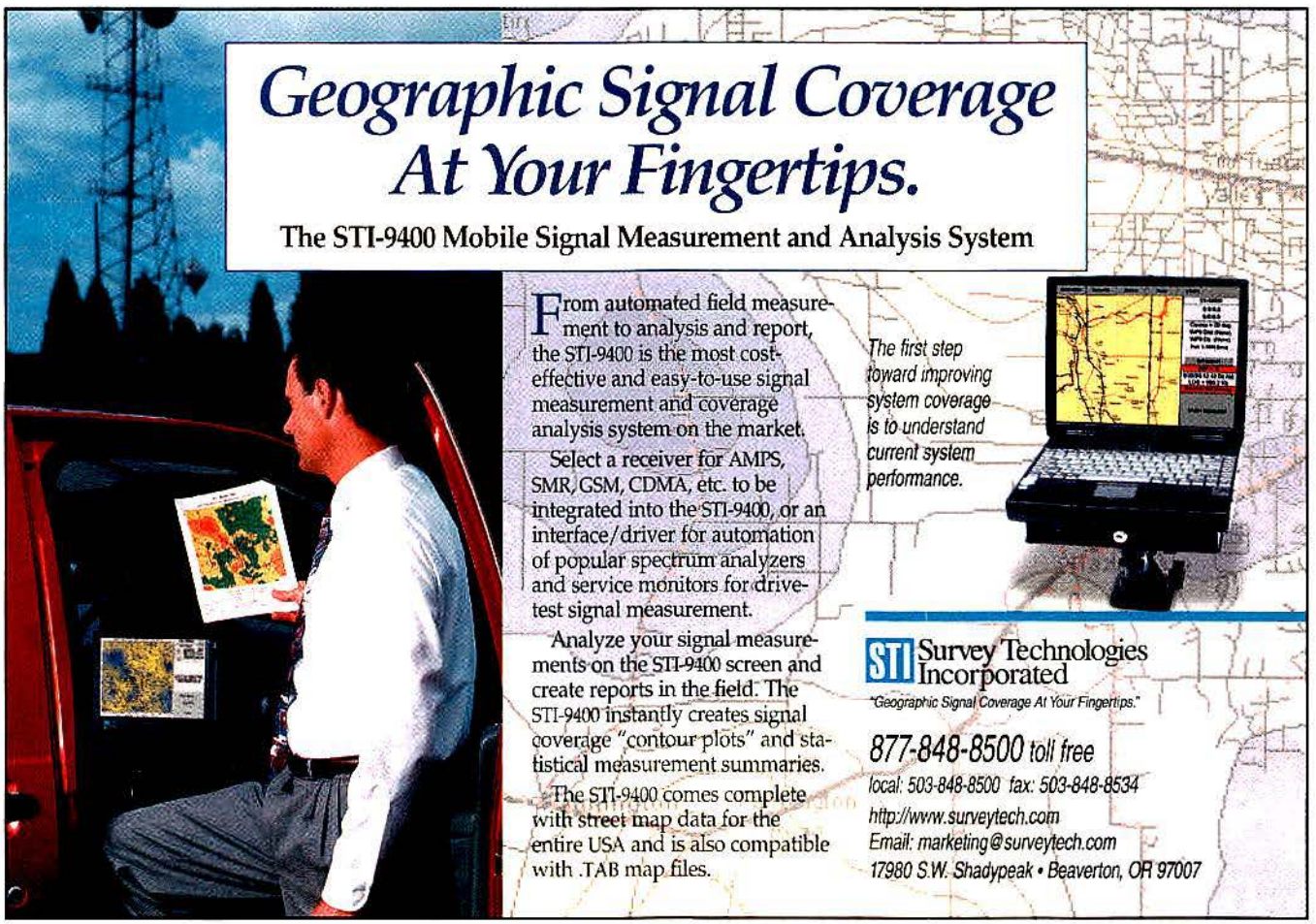
Adams Distributing
ADC
AF CommSupply
Atlas/Soundolier
Auto-Comm Engineering
Bud Industries
Cruisers
Diplomat UK
Direct Power & Water
DX Radio Systems
Electro-Comm Dist
EMR
Fort Worth Tower
General Communications
Haewa Communications
Harris Microwave Communications
Hartford Concrete Products
Hendry Telephone Products
Hutton Communications
Imark Communications Pty
Jackson Telcom
Jan Communications & Electronics
JB Spectra
Jon/Beau
Kintronic Labs
Liebert
MCM Electronics
Middle Atlantic Products
Newmar
Northern Technologies
Polaris Industries
Primus Electronics
Radio Frequency Systems
Scientific Dimensions
Secom Systems
Sinclair Technologies
Skaggs Telecommunications Service
Talley Communications
Telewave
The Winsted
Troy Products
ValueTronics International

Radios - See repeaters, transceivers

Advanced Test Equipment Rentals/ ATEC
Beam Radio
Datron World Communications
Delcom Industries
DX Radio Systems
Eartec
King Communications USA
Klein Electronics
Motorola
Pacific Crest
Paging & Wireless Service Center
Procomm USA
Radio Communications Wholesalers
Radio Wholesale
Relm Wireless
Schaefer Radio
Southern LINC
StateLine Communications
Talley Communications
Unita Communications

Remote control, tone, dc and others

Adams Distributing
AF CommSupply
Air Comm
Alligator Communications
Auto-Comm Engineering
B&C Communications
Berkeley Varitronics Systems
Catalyst Communications Technologies
Comark Distributing
Commtronics Engineering
Communications & Signals
Communications Specialists
Compuquest
CPI Communications
CTI
CTI Products
Danmax Communication
Dataprobe
Datron World Communications
Delcom Industries
Dinet
Diplomat UK
DX Radio Systems
Eagle Wireless International
Electro-Comm Dist
Electronic Products
GAI-Tronics
Genave/NRC
General Communications
Gronel Assoc
Hamtronics
Hutton Communications
IDA
Jan Communications & Electronics
JPS Communications
Manon Engineering
MCM Electronics
Midian Electronics
Monroe Electronics
Moseley Associates
NHRC



CIRCLE (19) ON FAST FACT CARD

"FIRST TO MARKET"

With New Products...Always Ahead of The Competition!

Two-Way Rep

Chargers

Analyzers

All Products Made in U.S.A.

With Over 20 Years of Manufacturing Experience

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In U.S. & Canada: 800-221-0732 • In NY 516-942-0011 • Fax 516-942-1944
E-Mail: email@ww-manufacturing.com • Web Site: www.ww-manufacturing.com

Nida
NorComm
Penta
Primus Electronics
Racom Products
RadioMate
Rayfield Communications
Schaefer Radio
Selectone
Smith Communications Service
Solid-State Electronics
Spectrum Communications
Talley Communications
TelePath
Telescada
Telex Communications
TESSCO
Webster Communications
World Communications
Zetron

Repeater control equipment

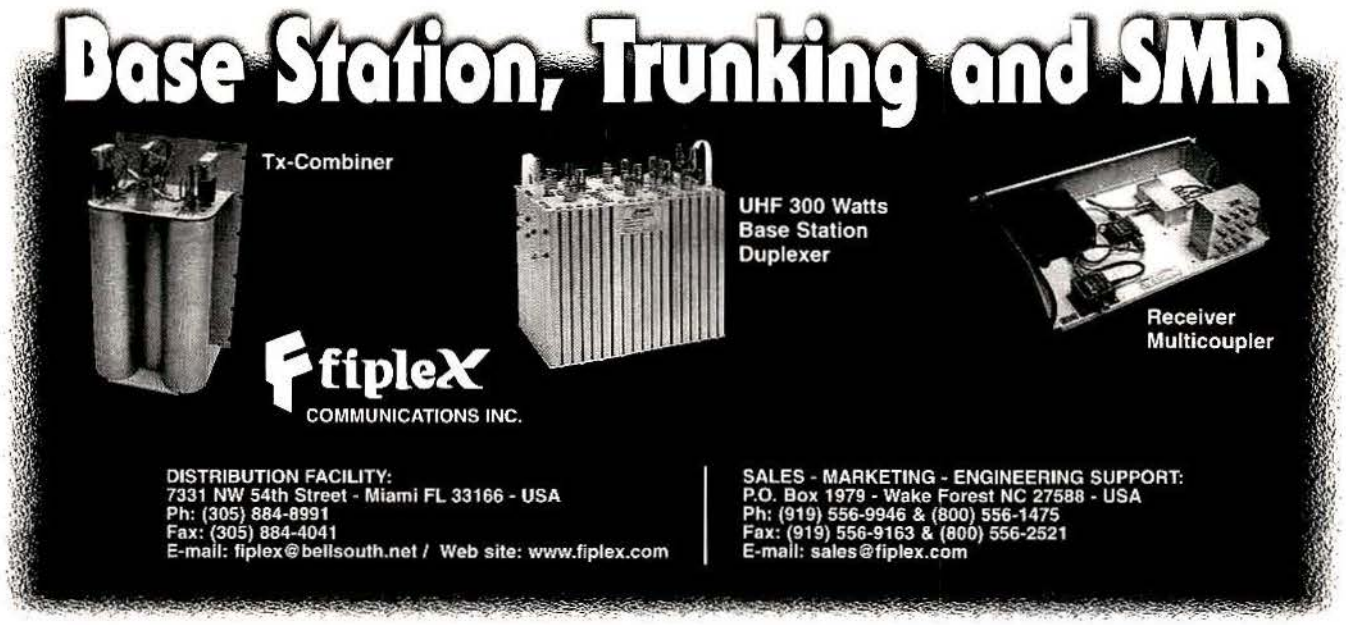
Adams Distributing
American Nucleonics
Auto-Comm Engineering
B&C Communications
Beam Radio
Bravo Tech
Catalyst Communications Technologies
CES Wireless Technologies
Comm-Net 2000 Comm & Mfg
Communication Engineers
Communications Specialists
Compuquest
Connect Systems
CSC Power Systems
CTI Products
CW Wolfe Communications
D&R Associates
Danmax Communication
Davicom Technologies
Delcom Industries
Diplomat UK
Doug Hall Electronics
DX Radio Systems
Eagle Wireless International
EF Johnson
General Communications
Hamtronics
IDA
Jan Communications & Electronics
JPS Communications
Kenwood Communications
Kenwood Systems
King Communications USA
Link Communications
M/A-COM Wireless Systems
Manon Engineering
Midian Electronics
Motorola Aftermarket Products
NHRC
Nida
Pacific Crest
PCI-Pekaar Communication
Penta
Pyramid Communications
Radio Communications Wholesalers
Radio Wholesale
Rayfield Communications
Repeater Technologies
Schaefer Radio
Secom Systems
Selectone
Spectrum Communications
Talley Communications
Telemobile
TESSCO
Transcrypt Secure Technologies
UNIDEN-Private Radio Comm's
Webster Communications
Zetron

Repeaters: Base

Adams Distributing
Aerocomm
Air Comm
Allgon
Andrew
Antenna Specialists
Auto-Comm Engineering
B&C Communications
Barnett Electronics
Beam Radio
Beltronics
Bravo Tech
Comm-Net 2000 Comm & Mfg
Communication Engineers
Communications & Signals
ComSpace
CP Communications
Crescent Communications Services
CSC Power Systems
D&L Communications
D&R Associates
Daniels Electronics
Danmax Communication
DH Marketing
DX Radio Systems
Eagle Wireless International
Earmark
EF Johnson
Falcon Wireless
Futurecom Systems Group
Gabriel Electronics
General Communications
Haewa Communications
Hamtronics
ICOM America
Imark Communications
Jan Communications & Electronics
JPS Communications
Kenwood Communications
Kenwood Systems
King Communications USA
Manon Engineering
Mechem Electronics
Morcom International
Mountain Communications
Neulink, Div of RF Industries
Nida
Pacific Crest
Paging & Wireless Service Center
PCI-Pekaar Communication
Pyramid Communications
Radio Communications Wholesalers
Radio Frequency Systems
Relm Wireless
Repeater Technologies
RF Technology
Ritron
Schaefer Radio
SEA
Secom Systems
Smith Communications Service
Spectra Engineering
Spectrum Communications
Talley Communications
Telemobile
TelePath
Teletec
Unita Communications
Vertex Radio Communications

Repeaters: Crossband

Adams Distributing
Aerocomm
Andrew
Auto-Comm Engineering
B&C Communications
Beam Radio
Comm-Net 2000 Comm & Mfg
Communication Engineers
Communications & Signals
D&R Associates
Daniels Electronics
Danmax Communication
DH Marketing
DX Radio Systems
Eagle Wireless International
Earmark
EF Johnson
Falcon Wireless
Futurecom Systems Group
Gabriel Electronics
General Communications
Haewa Communications
Hamtronics
ICOM America
Imark Communications
Jan Communications & Electronics
JPS Communications



CIRCLE (21) ON FAST FACT CARD

Kenwood Communications
Kenwood Systems
King Communications USA
Manon Engineering
Mechem Electronics
Morcom International
Mountain Communications
Neulink, Div of RF Industries
Nida
Pyramid Communications
Radio Communications Wholesalers
Relm Wireless
Schaefer Radio
Secom Systems
Spectra Engineering
Spectrum Communications
Talley Communications
Telemobile
TelePath
Teletec
Unita Communications

Repeaters: Mobile

Adams Distributing
ADC
Aerocomm
Air Comm
Andrew
Auto-Comm Engineering
B&C Communications
Barnett Electronics
Beam Radio
Beltronics
Comm-Net 2000 Comm & Mfg
Communication Engineers
Communications & Signals
ComSpace
CSC Power Systems
D&L Communications
D&R Associates
Danmax Communication
Eagle Wireless International
Earmark
EF Johnson
Falcon Wireless
Futurecom Systems Group
General Communications
Haewa Communications
ICOM America
Imark Communications Pty Ltd
Inmetco
Jan Communications & Electronics
JPS Communications
Kenwood Communications
Kenwood Systems
King Communications USA
M/A-COM
Manon Engineering
Mechem Electronics
Morcom International
Mountain Communicationss
NEC America
Neulink (Div of RF Industries)
Nida
Pacific Crest
Pyramid Communications
Radio Communications Wholesalers
RadioMate
Ranger Communicationss
Relm Wireless
Ritron
Schaefer Radio
Secom Systems
Skyline Radio
Talley Communications
Telemobile
TelePath
Teletec
Unita Communications
Vertex Radio Communications

Repeaters: Portable

Adams Distributing
Aerocomm
AF CommSupply
Air Comm
Andrew
Auto-Comm Engineering
Beam Radio
Beltronics
Comm-Net 2000 Comm & Mfg
Communication Engineers
Communications & Signals
ComSpace
D&L Communications
D&R Associates
Daniels Electronics
Danmax Communication
DX Radio Systems
Eagle Wireless International
Earmark
EF Johnson
Falcon Wireless
General Communications
Haewa Communications
ICOM America
Imark Communications
Inmetco
Jan Communications & Electronics
JPS Communications
Kenwood Communications
Kenwood Systems
Manon Engineering
Mechem Electronics
Morcom International
Mountain Communications
NEC America
Neulink (Div of RF Industries)
Nida
Pyramid Communications
Radio Communications Wholesalers
RadioMate
RELM Wireless
Ritron
Schaefer Radio
Secom Systems
Skyline Radio
Spectrum Communications
Telemobile
TelePath
Teletec
Unita Communications
Vertex Radio Communications

RF links

Adams Distributing
ADC
Aerocomm
Aerotron-Repco Systems
AF CommSupply
Alligator Communications
Andrew
Auto-Comm Engineering
B&C Communications
Beam Radio
Carlson Wireless Technologies
Comm-Net 2000 Comm & Mfg
Communications & Signals
CP Communications
D&R Associates
Daniels Electronics
Durham Communications
DX Radio Systems
Eagle Wireless International
Flexco Microwave Inv
Gabriel Electronics
GRE America
Hamtronics
Harris RF Communications
IDA
Imark Communications
Jan Communications & Electronics
KAVIcomm
Manon Engineering
Metric Systems
Metroplex Mobile Data
Microwave Data Systems

VOICE Plus ENCRYPTION SCRAMBLER

MODEL NC804

$129.95
(1-9 pcs.)

The Model NC804 is a micro-miniature voice-plus pseudo-random rolling code scrambler designed to provide high level security for two-way radio voice communiction systems. It's unique digital encryption processing algorithm, plus it's many features makes the Model NC804 a perfect cost effective solution for high-end voice encryption scrambling for commercial users, police departments, public safety organizations and other systems as a defense against unauthorized interception of private and sensitive voice transmissions by casual or even the most determined listeners. The Model NC804 features 8 user code keys with over 20 trillion codes to choose from. Kill disable for stolen or lost radios, over the air programming for changing of units operating parameters without removal from radio. Measuring .90" W x 1.30"L x .22"H, the Model NC804 supports limited space applications and is plug compatible with our popular Model NC802 voice inversion scrambler making it ideal for system upgrades.

- **OVER THE AIR PROGRAMMING**
- **SCRAMBLE/CLEAR MODES**
- **AUDIBLE ANNOUNCER**
- **VISUAL INDICATOR**
- **INTERFACING**
- **SYNCHRONIZATION**
- **CODE KEY MEMORIES**
- **SYSTEM PROGRAMMING**
- **VOICE QUALITY** • **COS MODE**
- **KEY CODES** • **KILL FUNCTION**

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CIRCLE (22) ON FAST FACT CARD

Monicor Electronics
Moseley Associates
Neulink (Div of RF Industries)
Nutel Wireless
Pyramid Communications
Quality Mobile Communications
Radio Resources
Ranger Communications
Rayfield Communications
RF Connectors
RF Industries
RF Technology
Ritron
Schaefer Radio
Simulcast Solutions
SmartLink Development Network
Solid-State Electronics
Spectra Engineering
Spectrum Communications
Synetcom Digital
Tactical Electronics
Telemobile
TelePath
VisionAir
Western Multiplex
World Communications
WPCS
Zebryk Engineering

Scanning receivers (scanners)

Adams Distributing
Advanced Test Equipment Rentals/ ATEC
Beam Radio
Berkeley Varitronics Systems
Commtronics Engineerings
Grayson Wireless
Jan Communications & Electronics
MCM Electronics
Mountain Communications
NSI Communication
Optoelectronics
RELM Wireless
Rohde & Schwarz
Spectra Engineering
Synetcom Digital
Talley Communications
Thunder Eagle
Wireless Telecom

Scramblers, encryption devices

Adams Distributing
Auto-Comm Engineering
B&C Communications
Comm-Tech International
Communication Engineers
Communications & Signals
Communications Specialists
Cromack Industries
Danmax Communication
DX Radio Systems
Eartec
EF Johnson
Falcon Wireless
Harris RF Communications
Hutton Communications
Imark Communications
Jan Communications & Electronics
Mechem Electronics
Midian Electronics
Morcom International
MX-COM
NorComm
Radio Communications Wholesalers
Selectone
Synetcom Digital
Talley Communications
TESSCO
Thales Communications
Transcrypt Secure Technologies

Service manuals

Air Comm
Artech House
Commtronics Engineering
Curtis Electro Devices
Fryer's Site Guide and Tower Source
Institute for Wireless Education
MCM Electronics
PACE
Ramsey Electronics
Tru Cal International

Shelters

AF CommSupply
American Towers & Structures
Andrew
Applied Power
Auto-Comm Engineering
Bally Engineered Structures
Cellxion
Contor Terminals
Delcom Industries
DH Marketing
Dupont Building
Easi-Set Industries
Electronic Products
Enviro-Buildings
Fibrebond
Fort Worth Tower
GFRC shelters
Hartford Concrete Products
Hill Radio Communications
Hulse Enterprises
Landmark Tower
Miller Telecom Services
PowerLink Technologies
Professional Systems
Ramsey Electronics
ROHN Industries
Ruf*Nek Building Systems
Sabre Communications
Sinclair Technologies
Tower Structures
Utility Structures

Shielded enclosures and accessories

Acheson Colloids
Auto-Comm Engineering
Bud Industries
Equipto Electronics
Fort Worth Tower
Haewa Communications
Hartford Concrete Products
Hendry Telephone Products
Industrial Communication Engineers
Lindgren RF Enclosures
Motorola Aftermarket Products
PowerLink Technologies
Ramsey Electronics
Spectrum Communications
Talley Communications
Utility Structures
ValueTronics International

Signaling and control equipment, digital

AEA
Alligator Communications
B&C Communications
Beam Radio
Communications & Signals
Communications Specialists
Compuquest
Conway Engineering
Cromack Industries
CTI Products
D&L Communications
Dataprobe
EF Johnson
Genave/NRC
GRE America
Gronel Assoc
Hutton Communications
InFoRad
JB Spectra
Lucent Technologies
Manon Engineering
Mechem Electronics
Midian Electronics
MX-COM
NorComm
PageTek
Pyramid Communications
RF Industries
Selectone
Simulcast Solutions
SmartLink Development Network
Solid-State Electronics
Synetcom Digital
Zebryk Engineering
Zetron

Simulcast systems

Adcomm Engineering
Durham Communications
DX Radio Systems
Eagle Wireless International
EF Johnson
EJ Dort & Assoc
M/A-COM Wireless Systems
Racom Products
Schaefer Radio

Simulcast Solutions
Spectracom
Spectrum Communications
Teletec
Zetron

Software: Business

Advanced Electronics
Alphalogic Systems
Andrew
ARIS Software
Computer Resources
DataBurst Technologies
Dialogic Communications
The Genesis Group
Innovative Maintenance Systems
John Mitchell
Juno Online Services
King Communications USA
Public Safety Systems (PSSI)
RaCoTek
Service Level
ServicePlus
Slattery Software
WPCS

Software: Engineering, technical and equipment-related

ADC
Aerocomm
AirCom International
Andrew
The Battery Connector
Cadex Electronics
CMC Consulting
Commtronics Engineering
Communication Engineers
Communications Data Services
Compuquest
Comsearch
Coral Systems
Cromack Industries
Direct Communications International
DORR Engineering Services
EDX Division Comarco Wireless Technologies
Futurecom Systems Group
Hartford Concrete Products
Hyde Company
Innovative Maintenance Systems
iTech
Kaval Telecom
Lawrence Behr Associates
LPKF Laser & Electronics
Lucent Technologies
Middle Atlantic Products
MLJ
Narda-An L3 Communications Co
PerCon
Plant Equipment
Public Safety Systems (PSSI)
RadioSoft
Rayfield Communications
RCC Consultants
Record/Play Tek
RSI
SAFCO Technologies
ServicePlus
Shaffer Communications Group
Sharp Communication
Signal Intelligence
Sitemaster
SiteSafe
Slattery Software
Software Concepts
SoftWright
Spirent Communications-TAS Division
Survey Technologies
Synetcom Digital
Telecommunications Engineering Assoc
TriTech Software Systems
Wireless Telecom
Wireless Valley Communications
XL Microwave

Software: Topographic

AirCom International
Carolina Global Maps
Communication Engineers
Communications Data Services
Dinet
ESRI
Missing Maps
PerCon
RadioSoft
SiteSafe
SoftWright
Synetcom Digital
Wireless Telecom
WPCS

Soldering, desoldering and surface-mount repair equipment

APE
CompuSource
Contact East
EF Johnson
Elenco Electronics
HMC Electronics
Hutton Communications
Jan Communications & Electronics
Jensen Tools
LPKF Laser & Electronics
MCM Electronics
Micro Care
MM Newman/Antex Div
Motorola Aftermarket Products
Motorola Land Mobile
PACE
Primus Electronics
RF Imaging & Communications
TESSCO

The *i*-WLL TRAILBLAZER

Get Full Voice and Data Communications to Your Remote Site – Quickly, Reliably, Cost-Effectively – with:

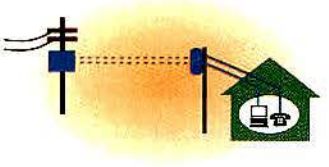
- Range up to 22 km/14 miles
- License-Free 2.4 GHz ISM Band
- Fast Dial-Up Modem Rates
- Crystal-Clear Voice
- Self-Contained, Self-Configuring

COMPACT SIZE
8.5 X 10.5 X 5 in.
weatherproof

Four *i*-WLL Trailblazer Models:

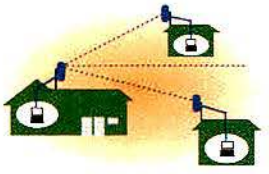
Phone Line Extender

Extends two full-service telephone lines up to 14 miles – including wireline-quality V.90 dial-up modem speeds for Internet and fax. Just as if you had two standard copper wire telephone lines.



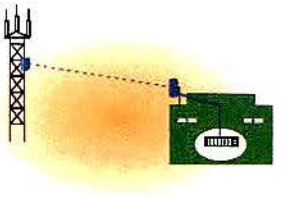
Ethernet Bridge

Connects to and extends existing WAN/LAN networks to other sites within 8 miles line-of-sight distance. Can also provide wireless broadband Internet and Internet telephony to remote clusters.



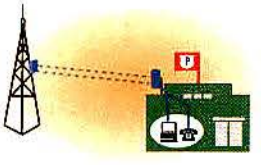
Fractional T1/E1

Transmits V.35 synchronous data for use as a line concentrator with multiplexed voice or other point-to-point digital transmission. Uses only 2 watts. Costs less than the competition.



Leased Line Emulator

Establishes a dedicated analog connection between two sites within 14 miles line-of-sight. Provides either two full-duplex lines or one 4-wire line.



All models offer:

- Plug-and-play simplicity.
- Small, lightweight, easy to install and use.
- All-digital CDMA spread spectrum technology.
- All components, including antenna, fully integrated into a weatherproof, lightning-protected enclosure.
- Very low power draw. Accepts any voltage from 12-48 VDC.
- Easily solar powered.
- Optional external antenna triples range.
- Repeaters also available.

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+1-707-923-1913 fax
sales@carlsonwireless.com

Much more on our website!
www.carlsonwireless.com

CIRCLE 23 ON FAST FACT CARD

Speakers

Auto-Comm Engineering
Comark Distributing
CompuSource
CSI/Speco
David Levy Company
Delcom Industries
Electro-Comm Dist
Fanon Courier
Hutton Communications
MCM Electronics
Merry Electronics
Motorola Aftermarket Products
Motorola Land Mobile
Paging & Wireless Service Center
Primus Electronics
Ranger Communications
Richardson Electronics
Schaefer Radio
Talley Communications
Telephonics
TESSCO
TwitCo Distributing
Unita Communications
Whelen Engineering

Station Identifiers

Adams Distributing
Autocode
Beam Radio
Communications Specialists
Control Signal
Data Signal
Delcom Industries
Electro-Comm Dist
Midian Electronics
Pipo Communications
Racom Products
Selectone
Spectrum Communications

Status alarm systems

Auto-Comm Engineering
Barnett Engineering
Beam Radio
Canamex Communications
Communications & Signals
Compuquest
Conway Engineering
Crescent Communications Services
CRN Telemetry Devices
CTI Products
Danmax Communication
Data Signal
Dataprobe
Davicom Technologies
DPS Telecom
Falcon Wireless
Gronel Assoc
Hark Tower Systems
InFoRad
Jack Daniel Company
LaMarche Mfg
Midian Electronics
Moseley Associates
Motorola Land Mobile
PageTek
Pipo Communications
Racom Products
Ritron
SONIK Technologies
Tekno Telecom
Telewave
WPCS
Zetron

Terminals

Benelec
Burndy Electrical
CES Wireless Technologies
Dataradio
David Levy Company
Dinet
Diplomat UK
DM Data
ECOM Systems
Escotel Software
GTE
King Communications USA
L & E Mobile Computers & Mounts
M/A-COM Wireless Systems
Manon Engineering
Novatel Wireless
PanaVise Products
Public Safety Management
Secom Systems
WPCS

Test equipment: Benchtop testing

Advanced Charger Technology
Advanced Test Equipment Rentals/ ATEC
AdvanceTec Industries
AEMC Instruments
AF CommSupply
Astro-Med
Avcom-Ramsey Technologies
Bird Electronic
E-Tronics
EAGLE
General Dynamics Decision Systems
Hark Systems
IFR
iTech
Johnson Controls
Samlex America
Spirent Communications-TAS Division
Summitek Instruments
Tektronix
Teltone
Tru Cal International
ValueTronics International
Wavetek Wandel Goltermann
XL Microwave

Test equipment: Cable fault locators

Advanced Test Equipment Rentals/ ATEC
AEA
Anritsu
AVO International
Brunelle Instruments
Contact East
DH Marketing
EAGLE
HMC Electronics
Jan Communications & Electronics
L-Tronics
Metro Tel
Primus Electronics
Riser Bond Instruments
Secom Systems
Talley Communications
Tektronix
TESSCO

Test equipment: Directional couplers

Advanced Test Equipment Rentals/ ATEC
Bird Electronic
Coaxial Dynamics
EAGLE

Test equipment: Field testing (RF)

A W Sperry Instruments
Advanced Signal
Advanced Test Equipment Rentals/ ATEC
AEA
AEMC Instruments
Aerocomm
Allen Telecom
Anritsu
Avcom-Ramsey Technologies
AW Sperry Instruments
Berkeley Varitronics Systems
Bird Electronic
EAGLE
General Dynamics Decision Systems
Holaday Industries
IFR
Jack Daniel Company
Narda Safety Test Solutions
Narda-An L3 Communications Co
Optoelectronics
Summitek Instruments
Talley Communications
Tektronix
ValueTronics International
Wavetek Wandel Goltermann
Wireless Telecom
XL Microwave

Test equipment: Frequency counters

Advanced Test Equipment Rentals/ ATEC
B&K Precision/MAXTEC
Beam Radio
Brunelle Instruments
Contact East
Elenco Electronics
Fluke
HMC Electronics
Jan Communications & Electronics
MCM Electronics
Metro Tel
Morcom International
Motorola Aftermarket Products
Optoelectronics
Ramsey Electronics
Synetcom Digital
TESSCO
Tru Cal International
ValueTronics International
XL Microwave

Test equipment: Generators, tone and RF signal

A W Sperry Instruments
Advanced Test Equipment Rentals/ ATEC
AEA
AF CommSupply
Anritsu
B&K Precision/MAXTEC
Beam Radio
Contact East
Conway Engineering
Cromack Industries
Fluke
Giga-tronics
HMC Electronics
IFR
Jensen Tools
MCM Electronics
Metro Tel
Monroe Electronics
Motorola Aftermarket Products
Rohde & Schwarz
Synetcom Digital
Talley Communications
Telex Communications
Teltone
Test Equipment Connection
Tru Cal International
ValueTronics International

Test equipment: Service monitors and modulation deviation meters

Advanced Test Equipment Rentals/ ATEC
AEA
AF CommSupply
Auto-Comm Engineering
AW Sperry Instruments
Barnett Electronics
Compuquest
DH Marketing
General Dynamics Decision Systems
Hark Systems
Hutton Communications
IFR
Motorola Aftermarket Products
Primus Electronics
Ramsey Electronics
RF Imaging & Communications
Rohde & Schwarz
SAFCO Technologies
Talley Communications
Tekno Telecom LLC
TelePath
TESSCO
Test Equipment Connection
Tru Cal International
ValueTronics International
Wayne Kerr/Farnell
Z-Technology

Test equipment: SINAD meters

Advanced Test Equipment Rentals/ ATEC
Beam Radio
Hutton Communications
Motorola Aftermarket Products
Ramsey Electronics
RF Imaging & Communications
Talley Communications
TESSCO
Wayne Kerr/Farnell

Test equipment: SWR measuring devices and meters

Advanced Test Equipment Rentals/ ATEC
AEA
Anritsu
Benelec
Berkeley Varitronics Systems
Coaxial Dynamics
Compuquest
Consultant-Log Electronics
EAGLE
Elenco Electronics
Giga-tronics
Hutton Communications
MCM Electronics
MFJ Enterprises
Narda-An L3 Communications Co
Talley Communications
Tektronix
Telephonics
TESSCO
Z-Technology

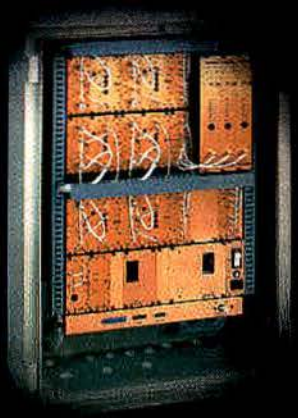
Test equipment: Telephone line test meters

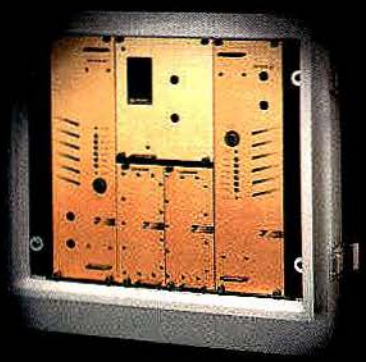
A W Sperry Instruments
Advanced Test Equipment Rentals/ ATEC
AVO International
Brunelle Instruments
CompuSource

broad-band amplifiers

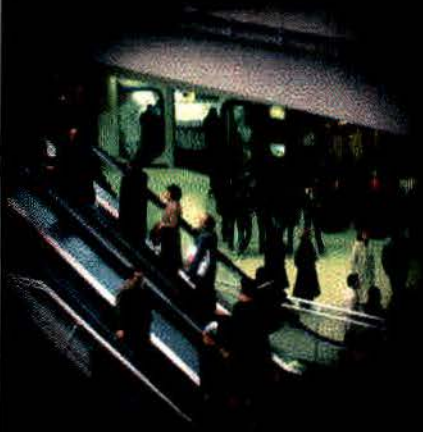
vehicular repeaters

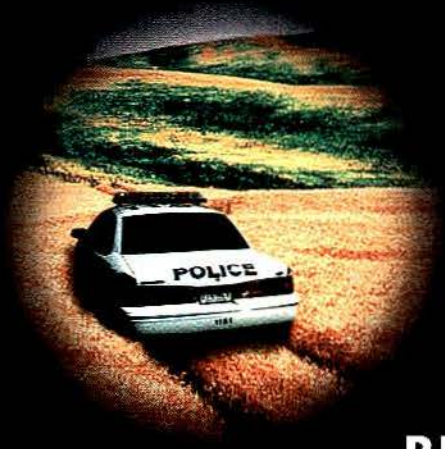
channel-selective repeaters





www.FUTURECOM.com





RF coverage by design

1-800-701-9180

CIRCLE (25) ON FAST FACT CARD

Contact East
Conway Engineering
CZ Labs
Elenco Electronics
HMC Electronics
Hutton Communications
Jan Communications & Electronics
Metro Tel
Motorola Aftermarket Products
RF Imaging & Communications

Test equipment: Wattmeters

Advanced Test Equipment Rentals/ ATEC
AF CommSupply
Bird Electronic
Boonton Electronics
Coaxial Dynamics
Contact East
Henry Radio
HMC Electronics
Hutton Communications
Jensen Tools
Manon Engineering
MFJ Enterprises
Motorola Land Mobile
Narda-An L3 Communications Co
Primus Electronics
RF Imaging & Communications
Talley Communications
Telewave
TESSCO
ValueTronics International
Webster Communications

Tower Lighting

AF CommSupply
American Towers & Structures
Antenna ID Products
BCS Wireless
CESCO
Delcom Industries
Flash Technology of America
Fort Worth Tower
Hark Tower Systems
Hill Radio Communications
ICT Systems
Lyncole XIT Grounding
Primus Electronics
Sabre Communications
Shaffer Communications Group
Sitemaster
Spectrasite
Spectrasite Broadcast Group
SSAC - An Entrelec Company
Stainless
Tower Connections
Tower Structures
Trylon-TSF
Unita Communications
Valmont/Microflect
Webster Communications
World Tower

Towers

AF CommSupply
Aluma Tower Company
American Towers & Structures
Antenna ID Products
Delcom Industries
Electro-Comm Dist
Engineered Endeavors,
ERI-Electronics Research
Fibrebond
Fryer's Site Guide and Tower Source
JMS & Associates
ROHN Industries
Ruf*Nek Building Systems
Sabre Communications
Sindair Technologies
Sitemaster
Spectrasite
Spectrasite Broadcast Group
Stainless
Talley Communications
Tower Connections
Towertek Industries
Unita Communications
Utility Tower
World Tower

Transceivers: 220 MHz

Aerocomm
SEA

Transceivers: Digital

Esteem Wireless Modems

Transceivers: FM Conventional

Air Comm
B&C Communications
Datron World Communications
Kenwood Communications
Klein Electronics
NSI Communication
Relm Wireless
Stuart Electronics

Transceivers: FM Trunking

Adams Distributing
Advanced Electronics
Air Comm
Auto-Comm Engineering
B&C Communications
Beam Radio
ComSpace
Cooks Communications
EF Johnson
Hill Radio Communications
ICOM America
Imark Communications
Jan Communications & Electronics
KAVIcomm
Kenwood Communications
Kenwood Systems
King Communications USA
M/A-COM
Manon Engineering
Mechem Electronics
NSI Communication
PCI-Pekaar Communication
PREMIER Communications
Radio Express
Relm Wireless
Ritron
Schaefer Radio
Secom Systems

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Make your batteries last twice as long

CADEX

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- Boosts dead batteries to life
- Reconditions batteries before they are sent to the recycle bin
- 16 programs give you the testing and service options you require
- Operates as a stand-alone or interfaces with a PC using Cadex Batteryshop™ software
- Approved by Nokia, Motorola, Ericsson, Alcatel, Siemens, Sagem and Samsung

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info@cadex.com fax: +1 604-231-7755 Cadex Electronics Inc. www.cadex.com

CIRCLE (26) ON FAST FACT CARD

The New Field-Proven Site Master Performs Even In The Toughest Environments.

Getting there and back is up to you.

The new C-Series Site Master features a handheld, battery-operated, field proven design so powerful, yet so small, that it fits in your backpack. Thousands of technicians just like you, have chosen Site Master because of its industry leading immunity to RF interference, ease of use, and its ability to pinpoint small, hard to find problems before major failures occur. New features such as on-screen test set-ups, multilingual user interface and InstaCal™calibration further set the new Site Master apart from others.

Is it any wonder why Site Master is the world's best-selling cable and antenna analyzer? So, whether you're climbing a mountain or crossing a desert, your Site Master is built to perform under the harshest conditions. How well you'll hold up, we can't guarantee.

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Site Master C-Series

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CIRCLE (27) ON FAST FACT CARD

Sharp Communication
Spectra Engineering
Synetcom Digital
TelePath
UNIDEN-Private Radio Comm's
Vertex Radio Communications

Transceivers: HF SSB

Auto-Comm Engineering
B&C Communications
Communication Engineers
Cubic Communications
Danmax Communication
Datron World Communications
DH Marketing
EF Johnson
Harris RF Communications
ICOM America
Mechem Electronics
MFJ Enterprises
Morcom International
NSI Communication
Rohde & Schwarz
Schaefer Radio
SGC
Synetcom Digital
Vertex Radio Communications

Trunked radio system: 800/900MHz

Advanced Test Equipment Rentals/ ATEC
Beam Radio
ComSpace
Cooks Communications
DX Radio Systems
EF Johnson
EMR
The Genesis Group
Hark Systems
IDA
ITV
JPS Communications
Kenwood Communications
Kenwood Systems
King Communications USA
M/A-COM Wireless Systems
Manon Engineering
Radio Communications Wholesalers
Relm Wireless
Schaefer Radio
Sharp Communication
Talley Communications
Telewave
Trident Micro Systems
Unita Communications
Zetron

Trunked radio systems: Digital

The Genesis Group
ITV
M/A-COM Wireless Systems
Talley Communications
Telewave
Unita Communications

Trunked radio systems: UHF

Air Comm
Beam Radio
Cooks Communications
DH Marketing
DX Radio Systems
EF Johnson
EMR
Hark Systems
IDA
ITV
JPS Communications
Kenwood Communications
Kenwood Systems
King Communications USA
Manon Engineering
Radio Communications Wholesalers
Relm Wireless
Ritron
Schaefer Radio
Talley Communications
Telewave
Trident Micro Systems
Unita Communications
Zetron

Trunked radio systems: VHF

Cooks Communications
DX Radio Systems
EMR
IDA
ITV
Kenwood Communications
M/A-COM Wireless Systems
Talley Communications
Telewave
Unita Communications

Uninterruptible Power Systems

Andrew
Auto-Comm Engineering
Benelec
Clary
CommuniTech
Contact East
Cummins Power Generation
Direct Power & Water
DX Radio Systems
Electro-Comm Dist
Exeltech
Fort Worth Tower
Hawker
HMC Electronics
Hutton Communications
Inmetco
Jan Communications & Electronics
LaMarche Mfg
Liebert
MCM Electronics
Motorola Land Mobile
Newmar
Northern Technologies
PowerLink Technologies
Primus Electronics
Solid-State Electronics
Superior Electric
Talley Communications
Tripp Lite
Wilmore Electronics
WPCS

Used equipment: Base station and site equipment

Air Comm
Anritsu
CW Wolfe Communications
Huber + Suhner
Penta
Record/Play Tek
Samlex America
Schaefer Radio
Unita Communications
WPCS

Used equipment: Radios

Air Comm
CP Communications
CW Wolfe Communications
NSI Communication
Schaefer Radio
Unita Communications
Wireless Vertical.com
WPCS

Used equipment: Testing equipment

CW Wolfe Communications
Radio Resources
RF Imaging & Communications
Schaefer Radio
Test Equipment Connection
Tru Cal International
ValueTronics International

Waveguide

AF CommSupply
Anritsu
Benelec
Gabriel Electronics
Hutton Communications
Lindgren RF Enclosures
Microwave Filter
Primus Electronics
Radio Frequency Systems
RF Imaging & Communications
Solid-State Electronics
Talley Communications
ValueTronics International

Services Directory

Accounting and Billing

ARIS Software
Computer Resources
Escotel Software
The Genesis Group
John Mitchell
Service Level

Attorneys (telecommunications)

Schwaninger & Associates

Brokerage

Daniels & Assoc

Consultants

AAT Communications
Adcomm Engineering
The Advertising Consortium
Aerocomm
AirCom International
Alexander Resources
APREL Laboratories
Atlas License & Data Services
Lawrence Behr Associates
CES Wireless Technologies
Communication Engineers
Communications Data Services
Comp Comm
ComTrain
Crescent Communications Services
CSI Telecommunications Engineers

COMMUNICATIONS INC.

CTA Communications
D&R Associates
John J Davis & Associates
EJ Dort & Assoc
E-Tronics corp
Eagle Wireless International
E Comm International
Engineering Associates
Escotel Software
First Search
Forest Industries Telecommunications
The Genesis Group
Frederick G Griffin PC
Gronel Assoc
GTE
Hayes Seay Mattern & Mattern
Holaday Industries
Institute for Disabilities Research & Training
Intergraph Public Safety
ITV
Jan Communications & Electronics
Kaval Telecom
L & E Mobile Computers & Mounts
Lawrence Personnel
Leach Mounce Architects
Lightning Eliminators & Consultants
Lightning Master
Lucent Technologies
Macro
Maxwell Safety Products
MFS Network Technologies
MLJ
Mobile Communications Consulting
Omnicom
PerCon
RaCoTek
Ramsey Electronics
RCC Consultants
Herb Sachs Consulting
SAFCO Technologies
Shosteck\Herschel Shosteck Associates
SiteSafe
SmartLink Development Network
SpaceCom Systems
SSI Services
The Strategis Group
Synetcom Digital
Telecommunications Engineering Assoc
Telewave
Tiburon
Tower Structures
Transtector Systems
Trott Communications Group
TruePosition
Viking Technology
WPCS
Zebryk Engineering

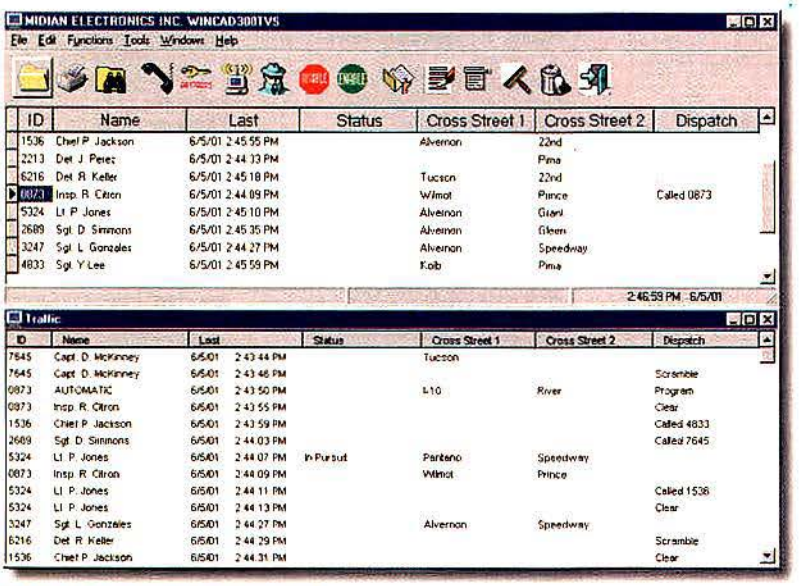
Engineering Services

Adcomm Engineering
Advanced Signal
Allen Telecom
Alltec
APREL Laboratories
Beam Radio
Berkeley Varitronics Systems
Catalyst Communications Technologies
CES Wireless Technologies
Crescent Communications Services
CSI Telecommunications Engineers

COMMUNICATIONS INC.

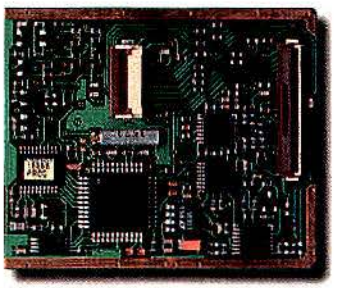
CTA Communications
DORR Engineering Services
DX Radio Systems
E-Tronics
EDX Division, Comarco Wireless Technologies
EMR
Engineering Associates
Escotel Software

Maximum Security - Minimal Effort
With Midian's Plug-In Voice Scramblers

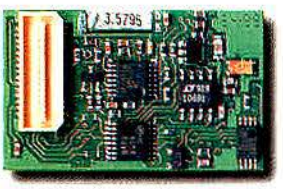


CAD-300 Dispatching Software: Monitors & controls radio communications. Allows system administrator to remotely change scramblers' primary security code, disable lost or stolen radios, selectively call units & display unit ID's.

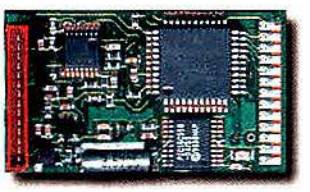
TVS-2 VX: For **Vertex** VX-210A/ 400/800/900 portables



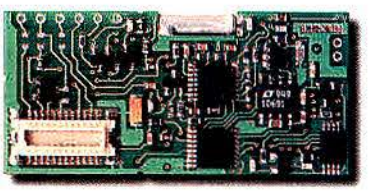
MOT-TVS-PRO: For **Motorola** Professional Series



TVS-2 ICOM: For **Icom** F-Series portables & mobiles



TVS-2 MAXON: For **Maxon** SP-120/130/140, SP-310/320/330/ 340 & SM-2000



TVS-2 TAIT/CE: For **Tait** T2020 mobile & T3000 portable series & **Com-Net Ericsson's** Panther 600M

Midian's plug-in high-security voice scramblers eliminate the hassle of installation. Because they are specially designed for a particular radio, audio levels are preset to ensure excellent audio quality. Most of our plug-in modules can be installed in just a few minutes!

Midian's TVS-2 Series of rolling code scramblers utilize true frequency hopping for higher security. The TVS-2 Series' hops are a minimum of several hundred cycles. Each of these hops employ random direction, random distance and random dwell time. This process makes it difficult to predict where our scrambler will instantaneously hop to, so it can't be readily tracked like competitive units which utilize frequency sweeping.

For radios not shown above, we offer the TVS-2 MICRO wire-in rolling code scrambler. Speech inversion scramblers are also available.

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ORDERS: 1-800-MIDIANS (643-4267)
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E-mail: sales@midians.com • Web: www.midians.com

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Harger Lightning and Grounding
HarTech
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ITV
JB Spectra
Kaval Wireless Technologies
Lightning Eliminators & Consultants
Macro
Professional Systems
RCC Consultants
Record/Play Tek
RSI
Sabre Communications
Scientific Dimensions
Sinclair Technologies
SiteSafe
SONIK Technologies
SSI Services
SuperPass
Telecommunications Engineering Assoc
Tower Sites
Towertek Industries
Transportation Safety Devices
Trott Communications Group
US Tower
Utility Tower
Webster Communications
WPCS
Zebryk Engineering

Equipment

ADC
Advanced Electronics
Aluma Tower Company
Andrew
Avcom-Ramsey Technologies
Badger Technology
Champion Communication Services
CP Communications
Danmax Communication
EJ Dort & Assoc
EAGLE
Event Rental Communication
Hark Tower Systems
Henry Radio
Holaday Industries
ITV
M&M Communications
Magellan Systems
RF Imaging & Communications
Schaefer Radio
SpaceCom Systems
Summitek Instruments
SuperPass
Tekno Telecom
Torfino Enterprises
Tower Structures
Tru Cal International
Unita Communications
ValueTronics International
WPCS

Equipment repair, reconditioning: Mobiles, portables, pagers and others

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Adams Distributing
Arcom
Beam Radio
Communication Engineers
Communications & Signals
D&L Communications
DP Electronics
DW Electrochemicals
ECOM Systems
Falcon Wireless
Fourth Dimension Industry
ICM Communications
Imark Communications
Inmetco
Jan Communications & Electronics
M&M Communications
Minilec Service
Motorola
Porta-Tech
Radio Communications Wholesalers
Ramsey Electronics
RELM Wireless
RF Imaging & Communications
Schaefer Radio
Skyline Radio
Smith Communications Service
StateLine Communications
TelePath
Unita Communications
ValueTronics International

FCC Rules and Regulations

Adcomm Engineering
American Mobile Telecommunications Assoc
APREL Laboratories
Atlas License & Data Services
Lawrence Behr Associates
ComTrain
CSI Telecommunications Engineers
CTA Communications
Forest Industries Telecommunications
Industrial Telecommunication Ass'n
Macro
Narda Safety Test Solutions
PerCon
Pike & Fischer
RCC Consultants
Slattery Software
SSI Services

Insurance

Mountain Communications

Service monitor repair and calibration

IFR
NS Electronics Service
Ramsey Electronics
RF Imaging & Communications
Rohde & Schwarz
Tekno Telecom

Site construction services

American Towers & Structures
Antenna ID Products
CTA Communications
Delcom Industries
DX Radio Systems
ERI-Electronics Research
ITV
JMS & Associates
Macro
Motorola
Northern Technologies
Professional Systems
ROHN Industries
RSI
Ruf*Nek Building Systems
Sabre Communications
Sioux Falls Tower Specialists
Sitemaster
Teracom Components
Tower Sites
Tower Systems
Unita Communications
Webster Communications

Software development

Cadex Electronics
Catalyst Communications Technologies
CES Wireless Technologies
Communications Data Services
Compuquest
Computer Resources
ComSpace
Cromack Industries
DataBurst Technologies
Dinet
Escotel Software
The Genesis Group
Institute for Disabilities Research & Training
Intergraph Public Safety
King Communications USA
Lucent Technologies
Metroplex Mobile Data
New World Systems
Penta
PerCon
Plant Equipment
Public Safety Systems (PSSI)
Pyramid Communications
RCC Consultants
Service Level
ServicePlus
SiteSafe
Software Concepts
SoftWright
Spillman Technologies
Synetcom Digital
Telecommunications Engineering Assoc
Tiburon
TriTech Software Systems
Viking Technology
Zebryk Engineering

Systems Integration

ADC
Adcomm Engineering
Baker Integrated Technologies
Beam Radio
CES Wireless Technologies
DM Data
DORR Engineering Services
EJ Dort & Assoc
Durham Communications
ECOM Systems
Engineering Associates
Escotel Software
Global Dispatch Technology
GTE
ITV
JB Spectra
JFW Industries
Johnson Controls
Kaval Wireless Technologies
Kenwood Communications
Kenwood Systems
L & E Mobile Computers & Mounts
M/A-COM Wireless Systems
Macro
Orbacom Communications Integrator
Public Safety Systems (PSSI)
Quality Mobile Communications
RCC Consultants
Solid-State Electronics
Spillman Technologies
SuperPass
Telecommunications Engineering Assoc
Viking Technology
WPCS
Zebryk Engineering

Technician Training

Alltec
Andrew
ComTrain
Glenayre Electronics
Harris Microwave Communications
Institute for Disabilities Research & Training
Institute for Wireless Education
ITV
PACE
Personal Communications Industry Association
Plant Equipment
Ramsey Electronics
Ridgewater College
SAFCO Technologies
Randall D Self CET
SoftWright
Transtector Systems
Wavetek Wandel Goltermann
Webster Communications

Tower installation

AAT Communications
American Towers & Structures
American Tower
American Tower Service
Andrew
CESCO
D&L Communications
Danmax Communication
EAGLE
Harris Microwave Communications
Hulse Enterprises
ITV
JMS & Associates
Landmark Tower
Sabre Communications
Shaffer Communications Group
Sioux Falls Tower Specialists
Spectrasite Broadcast Grove
Stainless
StateLine Communications
Tower Connections
Tower Structures
Tower Systems
Trylon-TSF
Unita Communications
US Tower
Utility Tower
Valmont/Microflect
Webster Communications
World Tower

Tower space rental

AAT Communications
Adams Distributing
American Tower
Antenna ID Products
Chicago Tower Leasing
Communication Engineers
Crescent Communications Services
D&L Communications
Danmax Communication
John J Davis & Associates
Hill Radio Communications
Intrafamily Communications
ITV
JMS & Associates
Landmark Tower
PBI
Rayfield Communications
RCC Consultants
Shaffer Communications Group
Spectrasite Broadcast Group
Stainless
StateLine Communications
Tower Sites
TowerMaps
Unita Communications
US Sitelease
World Tower

the PERFECT SUBSCRIBER UNIT

If it's tough enough for the U.S. Army....
The 'F4TR is MIL SPEC, sharing many components with the IC-F3S, the ICOM radio chosen by U.S. Army for its Soldier Intercom (SI) battlefield communications.*

Finally, now there's a radio that's ideal for today's business needs, and offers the capability to grow with tomorrow's technology. ICOM's IC-F4TR offers: 250 channels (selectable wide/narrow by channel); Built-in signalling, including CTCSS encode/decode with reverse burst, DCS encode/decode, and DTMF encode/decode; and a backlit alphanumeric display.

Why invest in equipment that may soon be out of date? ICOM's rugged 'F4TR is designed to take advantage of expected future technology changes.

For tomorrow, the 'F4TR offers: built-in flash memory for quick CPU upgrades; wide/narrow channel spacing; and trunking upgrade paths that grows with your company's communication needs.

3-in-1 selectable trunking/conventional radio:

- PassPort® *(that works!)*
- LTR®
- Conventional

It's the ideal **SMR** unit, designed from the ground up as a trunked radio.

IC-F4TR UHF

SNAP FLASH TRUNKING

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CIRCLE (29) ON FAST FACT CARD

Company addresses

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48 Coral Way #105.2
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305-451-4722
Fax: 305-451-3374
Email: apecorp.com
www.apecorp.com

A W Sperry Instruments
245 Marcus Blvd
Hauppauge, NY 11788
516-231-7050, 800-645-5398
Fax: 631-434-3128
Email: dennisc@awsperry
www.awsperry.com

AAT Communications
517 US Highway 1
Iselin, NJ 08830-3011

AAT Communications Systems
1854 Hylan Blvd
Staten Island, NY 10305-2111
718-351-8787, 800-622-6224
Fax: 718-351-2525
Email: aatcom_ny@compuserve.com

AC Data Systems
806 W Clearwater Loop #C
Post Falls, ID 83854-9480
208-777-1166, 800-890-2569
Fax: 208-777-4466
Email: info@acdataysytems.com
www.acdata_systems.com

Accele Electronics
17900 Crusader Ave
Cerritos, CA 90703-2631
562-809-5090, 800-788-1212
Fax: 562-809-1248

Accutech
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SS-12	10	12	1⅜ x 6 x 9	3.4
SS-18	15	18	1⅝ x 6 x 9	3.6
SS-25	20	25	2⅞ x 7 x 9⅜	4.2
SS-30	25	30	3¾ x 7 x 9⅝	5.0

MODEL SS-25M

DESKTOP SWITCHING POWER SUPPLIES WITH VOLT AND AMP METERS

MODEL	CONT. (Amps)	ICS	SIZE (inches)	Wt.(lbs.)
SS-25M*	20	25	2⅞ x 7 x 9⅜	4.2
SS-30M*	25	30	3¾ x 7 x 9⅝	5.0

MODEL SRM-30

RACKMOUNT SWITCHING POWER SUPPLIES

MODEL	CONT. (Amps)	ICS	SIZE (inches)	Wt.(lbs.)
SRM-10	7	10	3½ x 19 x 9⅝	4.3
SRM-12	10	12	3½ x 19 x 9⅝	4.7
SRM-18	15	18	3½ x 19 x 9⅝	5.0
SRM-25	20	25	3½ x 19 x 9⅝	6.5
SRM-30	25	30	3½ x 19 x 9⅝	7.0

WITH SEPARATE VOLT & AMP METERS

MODEL	CONT. (Amps)	ICS	SIZE (inches)	Wt.(lbs.)
SRM-25M	20	25	3½ x 19 x 9⅝	6.5
SRM-30M	25	30	3½ x 19 x 9⅝	7.0

MODEL SRM-30M-2

2 ea SWITCHING POWER SUPPLIES ON ONE RACK PANEL

MODEL	CONT. (Amps)	ICS	SIZE (inches)	Wt.(lbs.)
SRM-25-2	20	25	3½ x 19 x 9⅝	10.5
SRM-30-2	25	30	3½ x 19 x 9⅝	11.0

WITH SEPARATE VOLT & AMP METERS

MODEL	CONT. (Amps)	ICS	SIZE (inches)	Wt.(lbs.)
SRM-25M-2	20	25	3½ x 19 x 9⅝	10.5
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MODEL SS-12SM/GTX

MODEL SS-10EFJ-98

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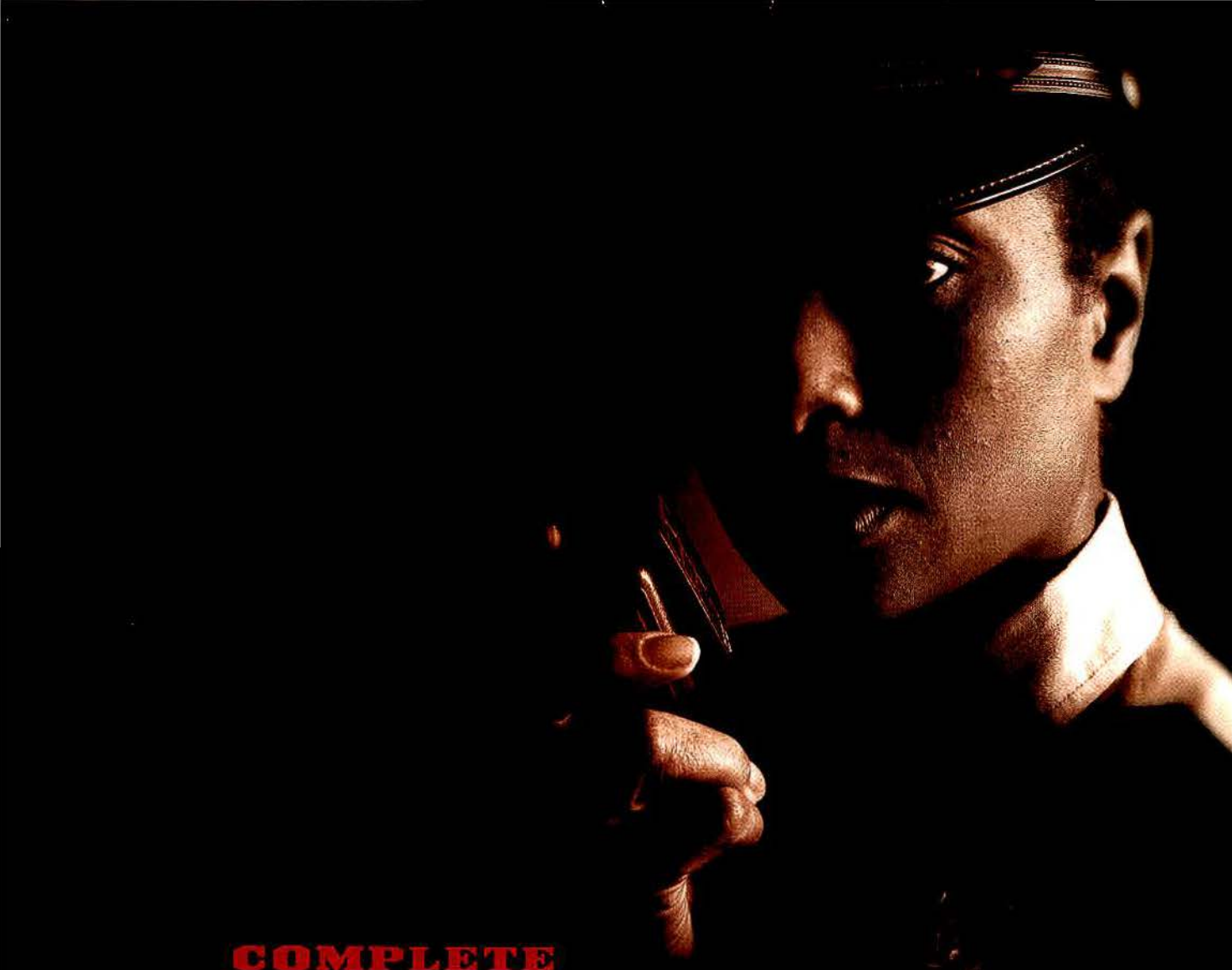

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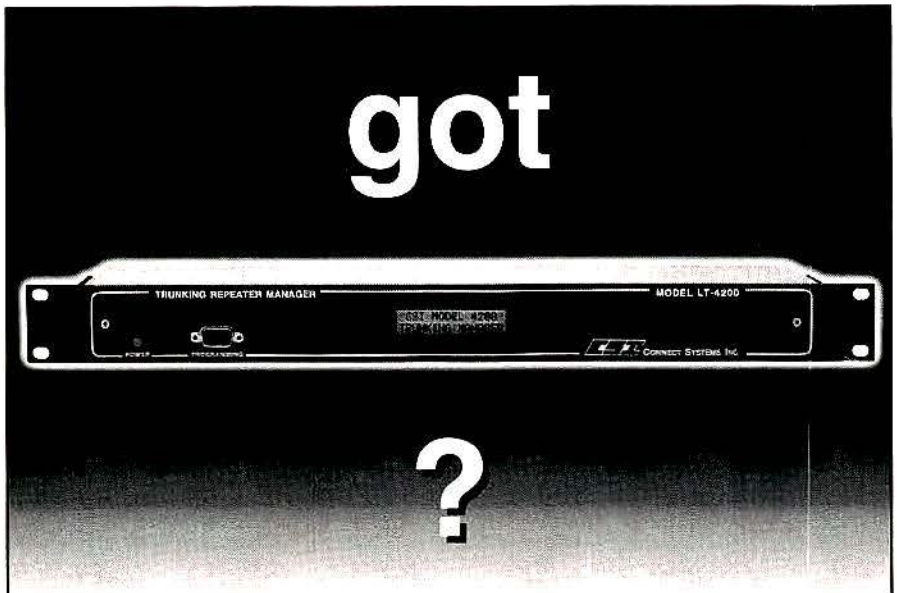

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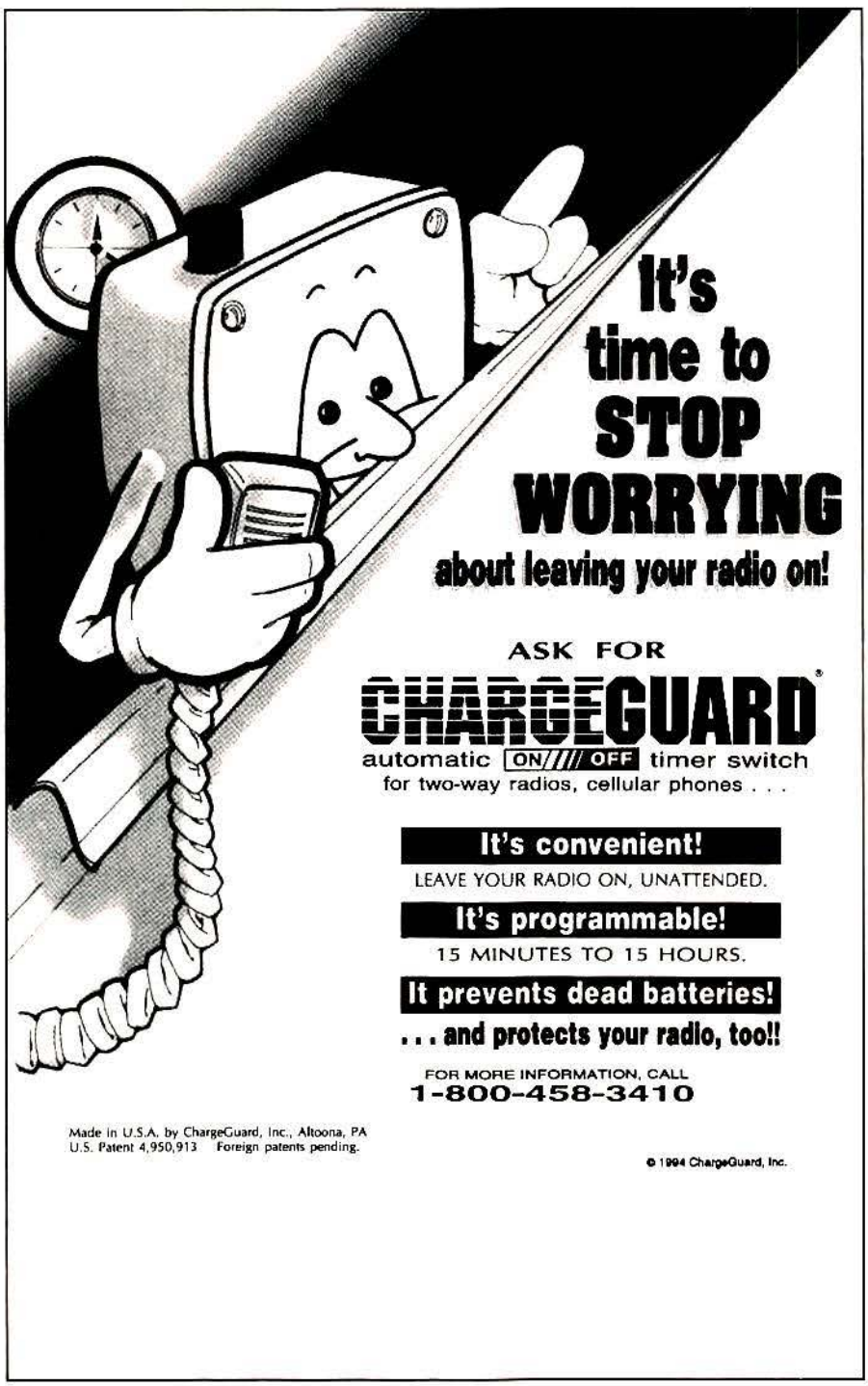

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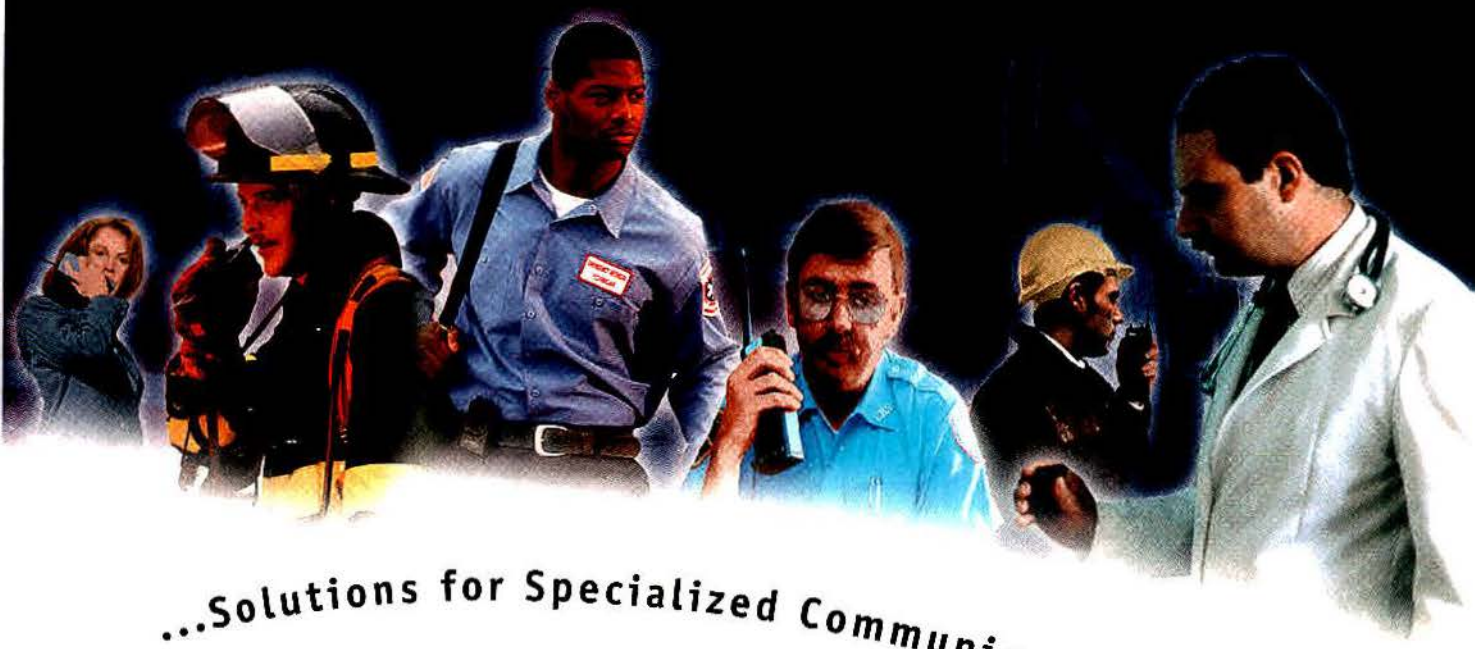

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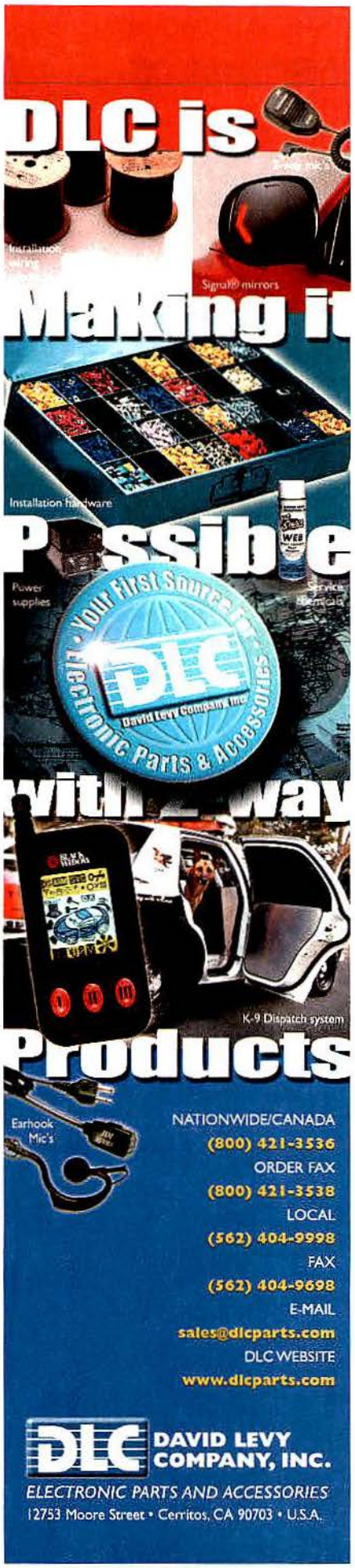

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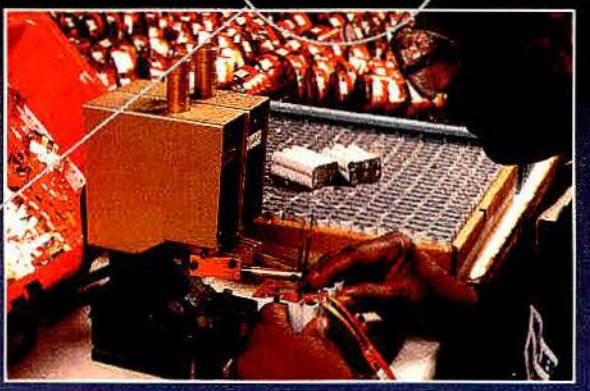

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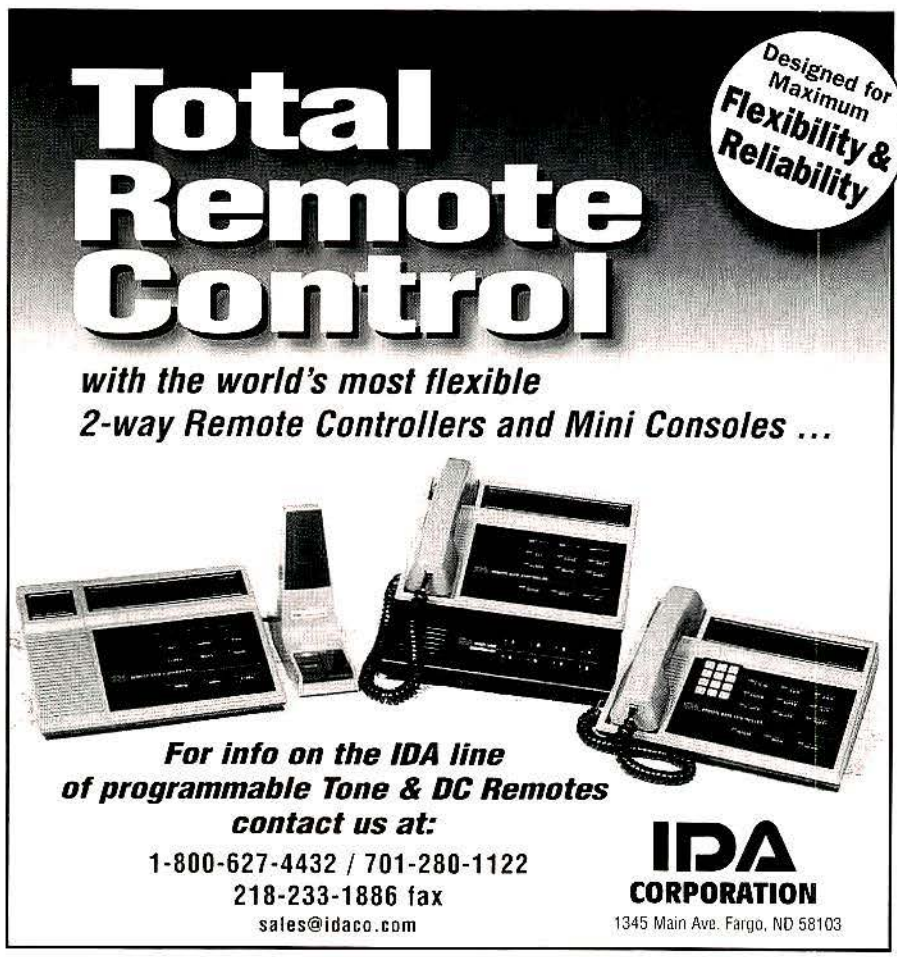

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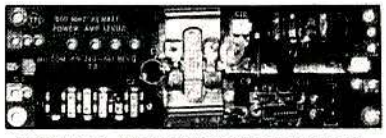

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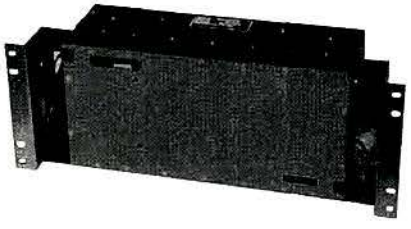

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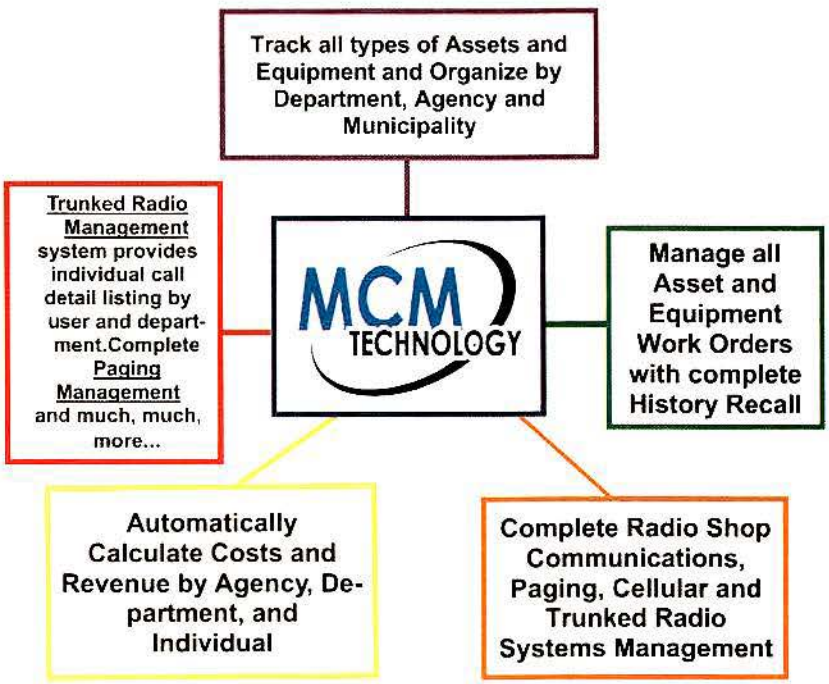

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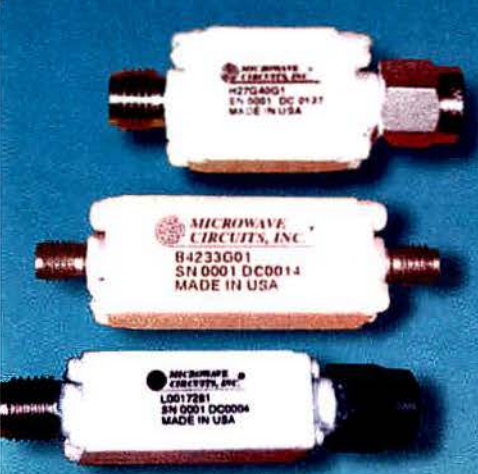

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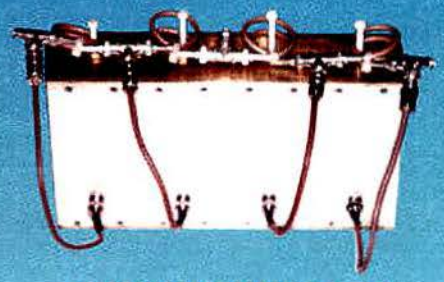

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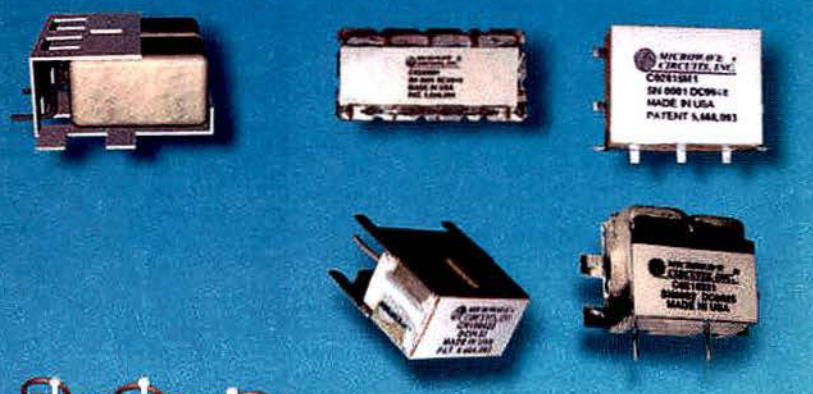

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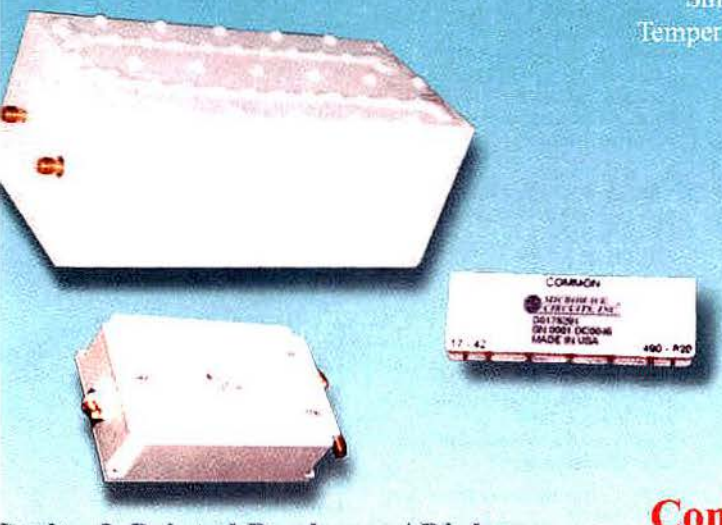

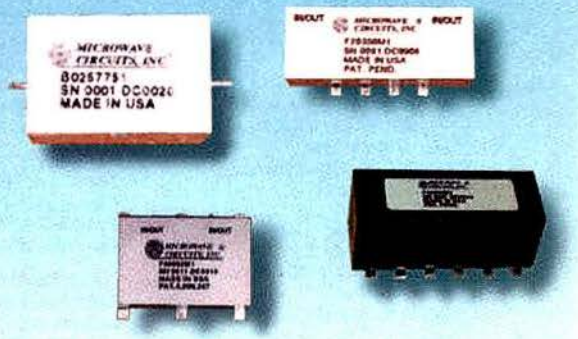

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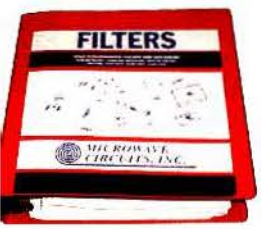

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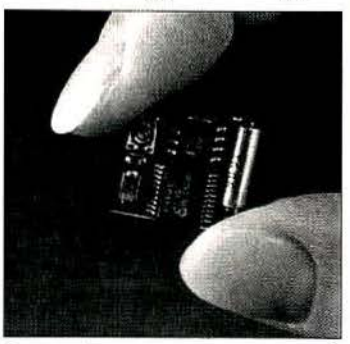

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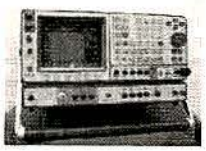

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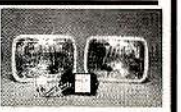

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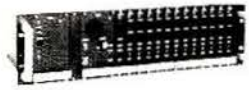

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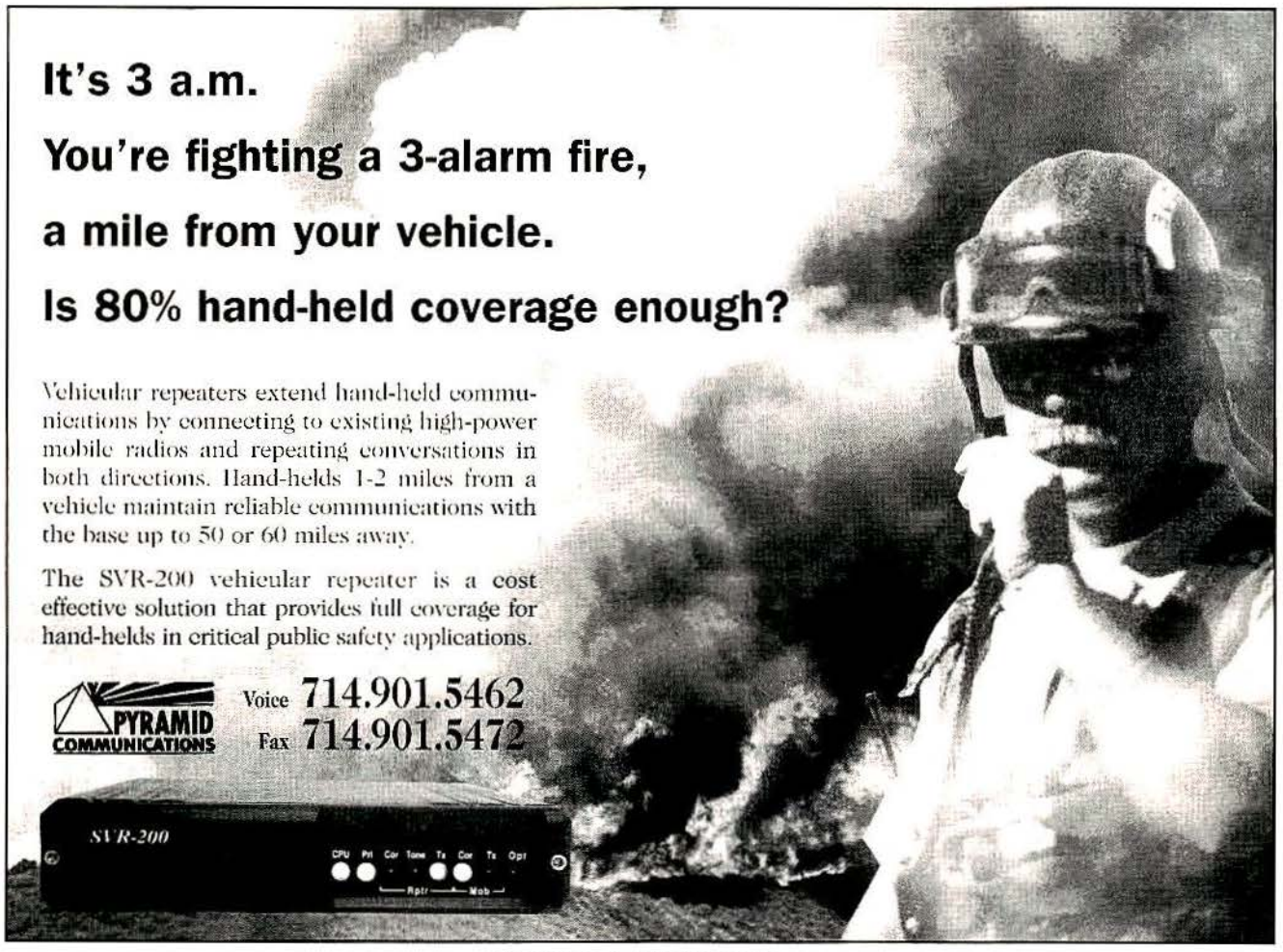

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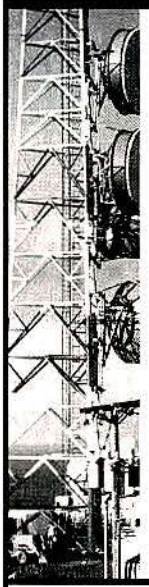

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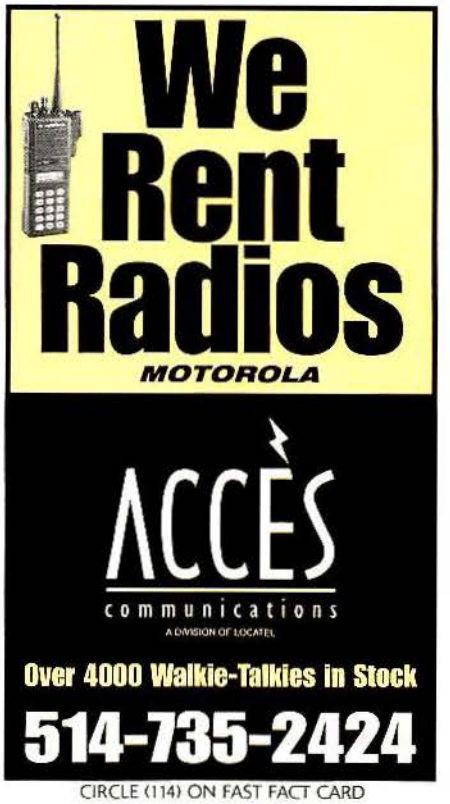

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Comms. Specialists	BC	61	800-854-0547
Connect Systems	50	36	800-545-1349
Control Signal Corp.	71	52	800-521-2203
CPI Communications	77	56	972-429-7160
Crescend Technologies	66	49	800-872-6233
CTA Communications	77	57	804-239-9200
Daniels Electronics	8	24	604-382-8268
Datron World Comms.	9	6	760-597-3814
Dispatch Products	51	37	219-665-7961
Diversified Electronics	63	47	404-361-4840
DLC	58	42	562-404-9998
Duracomm Corp.	73	54	816-472-5544
E.F. Johnson Co.	47	34	800-328-3911
El Paso Comm. System	84	107	915-533-5119
EML	83	105	615-771-2560
EMR Corp.	54	40	602-581-2875
Fiplex Communications	30	21	305-884-8991
Futurecom	35	25	905-860-5546
ICOM America	41	29	206-450-6041
IDA Corporation	60	44	701-280-1122
Jotto Desk	72	53	501-636-5776
JPS Communications	44	16	919-790-1011
Klein Electronics	84	102	760-781-3232
MCM Technology	68	8	205-655-0004
Microwave Circuits	69	51	800-642-2587
Midian Electronics	39	28	520-884-7981
Modular Communications	15	9	818-764-1333
Motorola Test Equipment	17	11	800-505-TEST
Multiplier Industries	59	43	914-241-9510
NARDA/L3 Comm. #1	19	14	631-231-1700
NARDA/L3 Comm. #2	21	14	631-231-1700
Newmar Power	67	50	714-751-0488
Norcomm Corp	31	22	800-874-8663
Omnicron Electronics	75	55	860-928-0377
OpenSky	1	2	877-OPENSKY
Peltor Communications	IBC	60	317-692-6666
Pirod	25	17	219-936-4221
Polaris	83	104	404-872-0722
Pryme Radio	45	32	714-257-0300
Pyramid Communications	85	108	714-901-5462
RCC Consultants Inc.	61	45	732-404-2500
RCC Consultants Inc.	87	116	800-247-4796
Sacramento Comm	82	115	209-755-4949
Schwaninger & Associates	13	62	202-347-8580
Shure Communications Inc.	49	35	847-353-3100
Simulcast Solutions	84	103	716-223-4927
Sinclair Technologies	76	58	905-727-0165
SoftWright	85	109	303-344-5486
Survey Technologies	28	19	503-848-8500
Swager Communications	86	101	800-968-5601
Telewave Inc.	5	4	650-968-4400
Thales Communications	65	48	800-258-4420
Thunder Eagle	79	59	703-242-0122
Transcrypt International	57	41	800-894-2609
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Vega/Telex Signaling	16	10	402-467-5321
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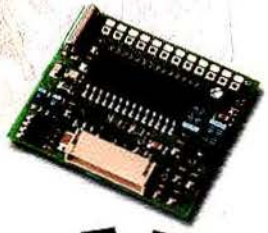

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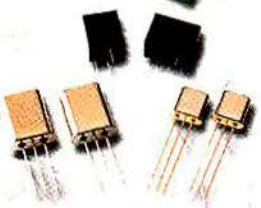

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